



## **KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT**

*Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Bob Thomas; Seat 4: George Mirabella; Seat 5: Danny Powers*

### **DISTRICT MEETING AGENDA November 16, 2020**

- 1. AGENDA**
  - 1a. Call to Order**
  - 1b. Roll Call**
  - 1c. Presentation Commissioner Thomas**
  - 1d. Adjourn**
  - 1e. New Commissioners Swearing In (Oath of Office)**
  - 1f. Roll Call**
  - 1g. Election of Officers**
    - Chairman**
    - Vice-Chairman**
    - Secretary/Treasurer**
- 2. APPROVAL OF AGENDA & MINUTES**
  - 2a. Approval of November 16, 2020 District Meeting Agenda**
  - 2b. Approval of October 12, 2020 District Meeting Minutes**
- 3. PUBLIC COMMENT**
- 4. CHAIRMAN REPORT**
- 5. SECRETARY REPORT**
- 6. OLD BUSINESS**
  - 6a. Fire Hydrant Report (Edge)**
- 7. NEW BUSINESS**
  - 7a. MOTION/APPROVAL: KLVAC Station 23 Johnson**
  - 7b. MOTION/APPROVAL: KLFD Station 24 Johnson**
  - 7c. MOTION/APPROVAL: KLFD Station 24 Camera (Feld Fire \$15,145 Johnson)**
  - 7d. MOTION/APPROVAL: KLFD Station 25 Insulation (Kelly Insulation \$10,899) Johnson**
  - 7e. MOTION/APPROVAL: Vernis & Bowling Contract Jones**
  - 7f. DISCUSSION: Bid Committee Proposal Ranking ITB 21-001 Edge**
  - 7g. MOTION/APPROVAL: 2021 District Meeting Calendar Fay**
  - 7h. DISCUSSION: Disposal of Smoke Machine Johnson**
- 8. FINANCE REPORT**
  - 8a. Approved Budget FY 20-21**
  - 8b. District Financial Report FY 2019-2020 - 4th Quarter**



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### DISTRICT MEETING AGENDA

(Continued)

November 16, 2020

**9. LEGAL REPORT**

**10. AMBULANCE CORPS REPORT**

**10a. KLVAAC Monthly Report 201031**

**10b. KLVAAC Call Log 200930**

**11. FIRE DEPARTMENT REPORT**

**11a. KLFD Monthly Report 201031**

**11a. KLFD Performance Report 201031**

**12. COMMISSIONER ITEMS**

**13. NEXT MEETING**

**13a. KLFR&EMS December 14, 2020 or December 21, 2020 District Meeting**

**14. ADJOURN**

**NEXT MEETINGS**

December 14, 2020 District Meeting (Contract ITB #21-001 Fire Hydrants)

December 21, 2020 District Meeting (if required)

**DOCUMENTS**

AI 2a. District Meeting Agenda

AI 2b1. Minutes District Meeting October 12, 2020

AI 07a. KLVAC Station 23 Painting Quotes

AI 07b. KLVFD Station 24 Bay Floor (\$15 145)

AI 07c. KLVFD Station 24 Camera (\$10,899)

AI 07d. KLVFD Station 25 Insulation Quotes

AI 07e. Vernis & Bowling Contract

AI 07g. 2021 District Meeting Schedule

AI 08a. District Approved Budget FY 20-21

AI 08b. District Financial Report FY 19-20 - 4<sup>th</sup> Quarter

AI 10A. KLVAC Monthly Report 201031 October for September

AI 10B. KLVAC Call Log 200930

AI 11a. KLFD Monthly Report 201031 October for September

AI 11b. KLFD Performance Report 201031

*Persons who wish to be heard shall send submit a  
Speaker Request Form to the District Clerk.*



## KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Bob Thomas; Seat 4: George Mirabella; Seat 5: Danny Powers

### DISTRICT MEETING MINUTES

October 12, 2020 - **DRAFT**

#### 1.0 AGENDA

##### 1a. Call to Order

Chairman Allen called the Zoom video conference District Meeting to order 6:01 pm.

##### 1b. Pledge of Allegiance

Tony Allen led the Pledge of Allegiance.

##### 1c. Roll Call

Vicky Fay called the roll. The following Commissioners were present: Tony Allen, Frank Conklin, George Mirabella, Danny Powers, and Bob Thomas. There was a quorum.

Also present were: Don Bock, Vicky Fay, David Garrido, Jennifer Johnson, Gaelan Jones, Esq., Jason Mumper, and Scott Robinson.

#### 2.0 APPROVAL OF AGENDA & MINUTES

##### 2a. Approval of October 12, 2020 District Meeting Agenda

Chairman Allen removed Agenda Item 7e. KLVAC & KLFD Mutual Aid Agreement and found cause to add new Item 7e for a Motion/Approval: RIA Fire Department Package Policy Invoice for FY 21(\$51,962.14).

**MOTION:** Commissioner Thomas made a motion **to approve the October 12, 2020 District Meeting Agenda with the changes as noted.**

The motion was seconded by Commissioner Mirabella, and the Board unanimously passed the motion.

##### 2b. Approval of Minutes

##### 2b1. Minutes 1<sup>st</sup> Public Hearing September 14, 2020

**MOTION:** Commissioner Thomas made a motion **to approve the September 1, 2020 1<sup>st</sup> Public Hearing**, which was seconded by Commissioner Conklin and the Board unanimously passed the motion.

##### 2b2. Minutes District Meeting September 14, 2020

Gaelan Jones confirmed the language was correct regarding revised Agenda Item 7d. Agenda Item 11.0 revised to reflect Station 25, not Station 24.

**MOTION:** Commissioner Thomas made a motion **to approve the September 14, 2020 District Meeting Minutes**, which was seconded by Commissioner Conklin and the Board unanimously



## **KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT**

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### **2b3. Minutes Final Public Hearing September 21, 2020**

**MOTION:** Commissioner Conklin made a motion ***to approve the September 21, 2020 Final Public Hearing.*** Commissioner Thomas Seconded and the motion was unanimously passed by the Board.

### **2b4. Minutes District Meeting September 21, 2020**

**MOTION:** Commissioner Conklin made a motion ***to approve the September 21, 2020 District Meeting Minutes,*** which was seconded by Commissioner Mirabella and the Board unanimously passed the motion.

### **3.0 PUBLIC COMMENT**

Sue Heim had a question regarding Item 2b.2 and spoke at Items 7d. and 8.0.

### **4.0 CHAIRMAN REPORT**

Chairman Allen did not have any items to report.

### **5.0 SECRETARY REPORT**

Commissioner Mirabella did not have any items to report to the Board.

### **6.0 OLD BUSINESS**

#### **6a. Fire Hydrant Report**

Commissioner Thomas reported that ITB 21-001 had been advertised, placed on the website and Demandstar, the proposals will come to the Board on December 14, 2020.

### **7.0 NEW BUSINESS**

#### **7a. DISCUSSION: Dive Rescue Vehicle**

Commissioner Thomas discussed the Dive Rescue Vehicle. He requested if the vehicle is sold that it should remain in the County as it was purchased by County taxpayers. Sheriff Ramsay has expressed an interest in purchasing the vehicle.

#### **7b. MOTION/APPROVAL: Keefe McCullough Auditor's Engagement Letter**

Jennifer Johnson discussed the Letter of Engagement. The audit is required by Florida Statute. The term is for two years, and the fee remains the same at \$10,000 per year.

**MOTION:** Commissioner Mirabella made a motion ***to retain the services of Keefe McCullough to conduct the District Audit for FY 20 and 21 for a fee of \$10,000 per year.*** Commissioner Powers seconded, and the Board unanimously passed the motion.





## KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

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### **7c. MOTION/APPROVAL: Benchmark Insurance (Workman's Comp \$53,088)**

**MOTION:** Commissioner Mirabella made a motion **to approve the Benchmark Insurance Workman's Comp in the amount of \$53,088**, which was second by Commissioner Thomas. The motion passed unanimously.

### **7d. MOTION/APPROVAL: FDEM Public Assistance Grant Agreement- COVID**

Jennifer Johnson reported the FDEM Agreement was for public assistance related to COVID. Masks and gowns are reimbursable as of 9/15/20, and the cost is unknown at this time.

**MOTION:** Commissioner Conklin made a motion **to approve the FDEM Public Assistance Grant Amendment COVID grant**. Commissioner Mirabella seconded, and the motion passed unanimously.

### **7e. MOTION/APPROVAL: PRIA Fire Department Package Policy Insurance (\$51,962.14)**

**MOTION:** Commissioner Mirabella made a motion **to approve the Fire Departments PRIA Insurance Package Policy in the amount of \$51,962.14** which was seconded by Commissioner Powers. The motion passed unanimously.

### **7f. MOTION/APPROVAL: KLVAC Station 23 Air Conditioner REX Air \$5,500)**

The air conditioner is for the classroom at Station 23.

**MOTION:** Commissioner Mirabella made a motion **to approve the KLVAC Station 23 Air Conditioner REX Air invoice in the amount of \$5,500)**. Commissioner Powers seconded the motion, which passed unanimously.

## **8. FINANCE REPORT**

Finance did not have any additional item.

## **9. LEGAL REPORT**

Gaelan Jones discussed the status of the 2<sup>nd</sup> story construction drawings. Burke Construction will prepare the drawings to be used to obtain a quote for Chairman Allen to present to the County. There was a lack of bidders to prepare the design drawings, which Legal believed was due to separating the project into two parts (design and construction) drawings. Legal will bring a quote for the design to the next meeting.

## **11. AMBULANCE CORPS REPORT**

### **10a. KLVAC Call Logs 200630, 200731 and 200831**

Scott Robinson reported one new volunteer started this month, and three additional volunteers will start in the next few months. The Veteran's Administration (VA) will only reimburse KLVAC transport when a death is involved or when the VA approves transportation to a non VA facility. Chief Bock will confirm with the VA. Chief Bock reported there has been difficulty in obtaining parts for one 2016 vehicle that has been at the dealers for three weeks.



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### 12. FIRE DEPARTMENT REPORT

#### **11a. KLFD Performance Report 200930**

One volunteer has been promoted to a Safer grant firefighter. The 401K match of up to 8% was approved by the KLFD Board, which is an incentive to encourage people to participate

### 13. COMMISSIONER ITEMS

Commissar Allen recommended the Board consider adding a line item for Chief pay when budgeting in the future

### 14. NEXT MEETING

#### **13a. KLFR&EMS October 26 District Meeting, November 9 District Meeting.**

#### **November 16 Strategic Plan & District Meeting**

The Board directed staff to cancel the October 26, 2020 meeting will be cancelled.

### 15. ADJOURN

**MOTION:** Commissioner Mirabella ***made a motion to adjourn the meeting at 6:51 p.m.*** This was seconded by Commissioner Thomas, and the motion passed unanimously.

### **NEXT MEETINGS**

*October 26, 2020 District Meeting (if required)*

*November 9, 2020 District Meeting (if required)*

*November 16, 2020 Strategic Planning Workshop & District Meeting*

*December 14, 2020 District Meeting (ITB #2020-001 Fire Hydrants)*

*December 21, 2020 District Meeting (if required)*

### **DOCUMENTS**

AI 2a. District Meeting Agenda

AI 2b1. Minutes 1<sup>st</sup> Public Hearing September 14, 2020

AI 2b2. Minutes District Meeting September 14, 2020

AI 2b3. Minutes Final Public Hearing September 21, 2020

AI 2b4. Minutes District Meeting September 21, 2020

AI 07b. Keefe McCullough Auditors Engagement Letter

AI 07c. Benchmark Insurance Company (Workman's Comp)

AI 07d. FDEM Public Assistance Grant Agreement- COVID

AI 07e. PRIA Fire Department Workman's Comp Insurance (\$51,962.14)

AI 07f. KLVAC Air Conditioner (REX Air \$5,500)

AI 10a. KLVAC Call Logs 200630, 200731, and 200831

AI 11a. KLFD Performance Report 200930

# Archer Painting

24 Dockside Lane PMB 32

N. Key Largo, FL 33037

Phone (305) 367-3762

Fax (305) 367-8859

## Estimate

Date	Estimate #
11/6/2020	1801

Name / Address
Key Largo E.M.S. Station 23 96800 Overseas Hwy. Key Largo, FL 33037

Project

Description	Qty	Cost	Total
BUILDING 23 LOCATED AT 96800 OVERSEAS HWY., KEY LARGO:  EXTERIOR STUCCO, RAILINGS, LARGE OVERHEAD DOORS & ADDITIONAL ENTRY/EXIT DOORS; SOFFITS/FASCIA; BALCONY AREAS; INTERIOR WALLS OF TRUCK-HOLDING GARAGES PREP. AND PRESSURE-CLEAN ALL ABOVE-MENTIONED AREAS; PATCH & SEAL ALL SCREW HEADS AND WATER-INTRUSION POINTS; APPLY 1 COAT OF PRIMER SEALER TO ALL SURFACES TO BE PAINTED; APPLY 1 FINISH COAT OF LOXON PAINT BY SHERWIN WILLIAMS TO EFFECT COLOR CHANGE FROM BLUE TO WHITE  LABOR AND MATRERIALS  ***SPECIAL NOTES ON JOB *** A 10 YEARS LIMITED WARRANTY FROM SHERWIN WILLIAMS PAINT COMPANY COMES WITH THIS PROPOSAL		54,836.00	54,836.00
		<b>Total</b>	\$54,836.00

Customer Signature \_\_\_\_\_

***Curtis Tucker Painting***  
***Licensed and Insured Monroe/Broward County***  
***Over 30 Years of Experience & Quality Work***  
***curtistuckerpainting@gmail.com***

Key Largo EMS Station #23  
98600 Overseas Hwy  
Key Largo, FL 33037

May 12, 2020

Estimate to pressure wash and paint the exterior of EMS Station #23, located at 98600 Overseas Hwy, Key Largo, Florida.

Scope of Work:

1. Pressure wash exterior vertical walls of Station 23.
2. Patch areas as needed.
3. Caulk areas as needed.
4. Seal areas as needed.
5. Prime areas as needed.
6. Paint exterior of Station 23.
  - a. Includes all exterior vertical walls.
  - b. Includes painting overhead roll up doors.
  - d. Includes painting solid pass through entry doors.
  - e. Includes necessary priming and patching.
7. Excludes all glass entry doors, all window framing & louvers, lettering, parking lots, roof, and walkways.
8. Includes all materials, supplies and equipment (company owned or leased).
9. Paint will be supplied by our firm.
  - a. 100% acrylic exterior house paint Sherwin Williams or Benjamin Moore.
  - b. Color will be chosen by department heads prior to start date.
  - c. FYI please note when choosing your color, darker and brighter colors tend to fade more regardless of the manufacturer or quality of the paint.
10. All paint will be applied by brush/roll.
  - a. Paint applied by hand lays down more of a quality coat than spraying does. Also, it gives a thicker paint layer, more attention to detail, and a better color consistency than spraying.

Estimate includes all labor and material. \$16,491.00

Upon starting the job a 20% deposit is due and the balance is due upon completion of work specified above. Painter is responsible for painting mistakes only.

Please call if you have any questions or would like to discuss anything about this proposal. No work is subcontracted out. We look forward to working with you and doing a professional job.

Acceptance of Proposal: The above prices, specifications, and conditions are satisfactory and are hereby accepted. Curtis Tucker Painting LLC is authorized to perform the work as described.

Date of Acceptance: \_\_\_\_ / \_\_\_\_ / 2020

Authorized Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Sincerely,  
Curtis Tucker

**JLM PAINTING & WATERPROOFING**  
**16001 SW 284 St**  
**Homestead Fl, 33033**  
**Tel: 305-242-9529 Fax: 305-508-6490**  
**email: jlmpainting@yahoo.com**

11/2/2020	07-2759
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Name / Address
key Largo E.M.S. Bldg. Attn: Adam Schussheim

## ESTIMATE

Description	Qty	Total
<p>98600 Overseas Highway Attn: Adam</p> <p>1) Exterior Painting of E.M.S. Building:            -Secure scaffold/ladders.            -Pressure wash entire exterior to remove any loose paint and or dirt.            -Allow surface to dry completely.            -Scrape and sand any loose/chipped paint on the exterior.            -Repair cracks on exterior stucco.            -Cover surroundings areas (floor, bushes, plants, windows, etc...) to protect them from any paint splatter.            -Caulk all windows and doors.            -Patch all wood where needed.            -Apply one (1) coat of oil primer and two (2) coats of Super Paint Satin to exterior wood.            -Prep and apply one (1) coat of Loxon primer to exterior stucco walls.            -Apply two (2) coats of Super Paint satin to exterior stucco walls.            -Clean up all areas where work was performed.</p> <p>2) Prep, prime and spray paint 5 roll up doors.</p> <p>3) Prep, prime and paint 11 doors previously field painted, exterior side only.</p> <p>LABOR &amp; MATERIALS:            EXCLUSIONS: railings, handrail, awning steel structure, shutters, floors, windows and stairway landing.</p> <p>NOTE: Any and all other changes will be charged over and above this estimate, including all permit fees and deposits.</p>		37,500.00
<b>JOB EXCLUSION(S): ANY AND ALL ITEMS NOT SPECIFICALLY INDICATED ABOVE.</b>	<b>Total</b>	<b>\$37,500.00</b>



# FLORIDA EPOXY

A PREMIUM BUILDING MAINTENANCE INC. COMPANY

## Quote

#KEY110120

20533 Biscayne Blvd  
Suite 433  
Aventura, FL 33180

Tel 305.776.3383  
Fax 888.864.6614  
Email: [brad@FloridaEpoxy.com](mailto:brad@FloridaEpoxy.com)

\*\*\*\*\*ALL STRIPING AND PATCHING CRACKS AND SAW CUTS INCLUDED IN THIS BID\*\*\*\*\*

Customer	Address	Phone	Date
Lieutenant C. Jones Key Largo Fire Department Station 24 "C" Shift	1 East Drive Key Largo, FL 33037	C: 954-234-8077 O: 305-451-2700 F: 305-451-4699 <a href="mailto:cjones@keylargofire.com">cjones@keylargofire.com</a>	11/1/20

Qty	Description	Unit Price	Line Total
	<b>ALL PREP SHOT BLAST AND OR DIAMOND GRINDING 480 VOLT HTC HEPA VAC SYSTEM / EDGES TO BE DONE BY HAND GRINDER</b>		
3500 SF	MOISTURE VAPOR BARRIER GP RESUPRIME OR EQUIVALENT	2.00	7,000.00
3500 SF	<b>3 COAT SIKA SOLID RESIN EPOXY SYSTEM ALUMINUM OXIDE NON SKID INCL.</b> SIKA 161 PRIMER 6-8 MIL SIKA 264 FINISH COAT 10-12 MIL SIKA 340 URETHANE CHEMICAL RESISTANT TOP COAT	4.50	15,750.00
	<b>Note: Some areas may have a variation of as high as 3% you may notice Roller Marks, Small bubbles from pinholes, color separation, Orange Peel, Profiles of patching, and Dimples. This is a result of the density of the material. Do not walk on for at least 8 Hours, Vehicles for 72 hours. We are not responsible for the following: Chipping, Scarring, Scratching Or abuse and cracking from subfloor movement. Liquids or Vapors Permeating through the concrete causing blisters, pinholes or separation. Not Responsible for Oil in existing concrete causing Fish Eyes or Poor quality concrete that will not let Epoxy penetrate concrete. <a href="#">Customer will move all items off floor at customer's expense</a> NOTE: GRINDING DOES PRODUCE DUST, ALL EQUIPMENT SENSITIVE TO DUST MUST BE PROTECTED BY CUSTOMER.</b>		
	<b>2 YEAR GUARANTEE / PRINT FROM <a href="http://FLORIDAEPPOXY.COM">FLORIDAEPPOXY.COM</a></b>		
Subtotal			22,750.00
Less 50% Deposit			11,375.00
Total Due at Completion			11,375.00

# Sikafloor® 161

## Versatile Epoxy Resin for Priming

<b>Description</b>	Sikafloor 161 is a two part, epoxy resin for priming and leveling mortars.
<b>Where to Use</b>	Sikafloor 161 is designed as a primer for Sikafloor epoxy and urethane coatings, as well as for broadcast and troweled systems. When used as primer Sikafloor 161 can be considered where $\leq 4\%$ moisture content by mass (pbw – part by weight) is measured on concrete substrate with Tramex® CME/CMExpert type concrete moisture meter.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Low VOC's</li> <li>■ Excellent penetration and adhesion</li> <li>■ Easy application</li> <li>■ Short Recoat Times</li> <li>■ Multi-purpose use</li> <li>■ 100% solids as supplied</li> </ul>

### TYPICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Packaging</b>	Component A: 3.0 US gal. (11.4 L) Component B: 1.5 US gal. (5.7 L) Components A+B: 4.5 US gal. (17 L) (Ready to mix unit)	Component A: 50 US gal. (189 L) (2 units needed) Component B: 50 US gal. (189 L) Components A+B: 150 US gal. (568 L)																								
<b>Color</b>	Gray transparent after mixing.																									
<b>Coverage</b>	160 - 200 ft <sup>2</sup> / US gal (3.9 – 4.9 m <sup>2</sup> / L) at 8 – 10 mils (0.20 – 0.25 mm) wet film thickness (w.f.t.).																									
<b>Pot Life</b>	<b>Material Temperature</b> +50°F (10°C) +68°F (20°C) +86°F (30°C)	<b>Time</b> ~ 50 minutes ~ 25 minutes ~ 15 minutes																								
<b>Waiting / Recoat Times</b>	Before applying second coat Sikafloor 161 on Sikafloor 161 allow: <table><tr><td><b>Ambient &amp; Substrate Temperature</b></td><td><b>Minimum</b></td><td><b>Maximum</b></td></tr><tr><td>+50°F (10°C)</td><td>24 hours</td><td>3 days</td></tr><tr><td>+68°F (20°C)</td><td>12 hours</td><td>2 days</td></tr><tr><td>+86°F (30°C)</td><td>6 hours</td><td>1 day</td></tr></table> Before applying Sikafloor Epoxy or Polyurethane on Sikafloor 161 allow: <table><tr><td><b>Ambient &amp; Substrate Temperature</b></td><td><b>Minimum</b></td><td><b>Maximum</b></td></tr><tr><td>+50°F (10°C)</td><td>24 hours</td><td>3 days</td></tr><tr><td>+68°F (20°C)</td><td>12 hours</td><td>2 days</td></tr><tr><td>+86°F (30°C)</td><td>6 hours</td><td>1 day</td></tr></table>		<b>Ambient &amp; Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>	+50°F (10°C)	24 hours	3 days	+68°F (20°C)	12 hours	2 days	+86°F (30°C)	6 hours	1 day	<b>Ambient &amp; Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>	+50°F (10°C)	24 hours	3 days	+68°F (20°C)	12 hours	2 days	+86°F (30°C)	6 hours	1 day
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<b>Properties Tested at 73°F (23°C) and 50 % R.H:</b>																										
<b>Pull-off Strength</b>	ASTM D4541	> 400 psi (2.7 MPa) (100% concrete failure)																								
<b>Shore D Hardness (7 days)</b>	ASTM D2240	76																								
<b>Solid Content</b>		~ 100% (by volume) / ~ 100% (by weight)																								
<b>VOC Content</b>	ASTM D2369	≤ 50 g/L																								
<b>Permeability</b>	ASTM E96	9.0 g/m <sup>2</sup> (24 hours / +75°F )																								
<b>Water Absorption</b>	ASTM D570	0.14 g/h - m <sup>2</sup>																								
<b>Viscosity (approx.)</b>		Components A + B: 775 (SP2/100)																								
<b>Chemical Resistance</b>	Please consult Sikafloor Technical Services.																									
<b>Shelf Life</b>	2 years in original unopened container under proper storage conditions. Store dry between 40°- 90°F (4°- 32°C)																									







## How to Use Surface Preparation

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. **Concrete** - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

## Mixing

### Mixing Ratio - 2 : 1 by volume.

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

### Primer and Intermediate:

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

**Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.**

## Application

### Primer:

Apply primer by squeegee at the rate of 160 - 200 ft<sup>2</sup> / US gal (3.4 - 4.9 m<sup>2</sup> / L) at 8 - 10 mils (0.20 - 0.25 mm) wet film thickness (w.f.t.) and back roll with pressure after 15 minutes. Coverage will vary depending on the porosity of the prepared floor. Product has a limited Pot Life, see Typical Data. Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the surface to be coated, then spread with squeegee and back roll. Ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate.

## Limitations

### Notes on Limitations:

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

**Substrate Moisture Content:** Moisture content of concrete substrate must be ≤ 4% by mass (pbw - part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 1610 or Sikafloor 81 EpoCem.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85%. If values are > 85% according to ASTM F2170 use Sikafloor 1610 or Sikafloor 81 EpoCem.

ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.

**Material Temperature:** Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)

**Ambient Temperature:** Minimum/Maximum 50°/85°F (10°/30°C)

**Substrate Temperature:** Minimum/Maximum 50°/85°F (10°/30°C) Substrate temperature must be at least 5°F (3°C) above measured Dew Point

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

**Ambient Relative Humidity:** Maximum ambient humidity 85% (during application and curing)



# Industrial Flooring

**Dew Point:** Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

**Mixing:** Do not hand mix Sikafloor materials. Mechanically mix only.

Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty. Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.

**Application:** Apply the primer to the prepared substrate using a squeegee and back roll to provide uniform coverage. Ensure that the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- For professional use only by experienced applicators.

**Caution**

**COMPONENT A: WARNING: COMBUSTIBLE, IRRITANT, SENSITIZER.** Contains quartz (SiO<sub>2</sub>) (CAS:14808-60-7), bisphenol A-(epichlorhydrin) epoxy resin (CAS:25068-38-6), Benzyl alcohol (CAS:100-51-6), bisphenol F-(epichlorhydrin) epoxy resin (CAS:28064-14-4), oxirane, mono[(C12-14-alkyloxy)methyl]derivs (CAS:68609-97-2) and ethanol (CAS:64-17-5). Keep away from heat, sparks, electrical equipment, and open flame. **DO NOT SMOKE.** Use only in well ventilated areas. Causes skin/eye irritation. Harmful if inhaled in high concentrations/swallowed. May cause skin sensitization after prolonged contact. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. **Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.**

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**COMPONENT B: DANGER: FLAMMABLE, CORROSIVE, SENSITIZER.** Avoid direct contact. Contains Benzyl alcohol (CAS:100-51-6), Isophoronediamine (CAS:2855-13-2), m-phenylenebis(methylamine) (CAS:1477-55-0), bisphenol A-(epichlorhydrin) epoxy resin (CAS:25068-38-6), ethanol (CAS:64-17-5), Phenol, 4-dodecyl-, branched (CAS 210555-94-5), and 2,4,6-tris(dimethylaminomethyl)phenol (CAS:90-72-2). **Keep away from heat, sparks, sunlight, electrical equipment, flame or other sources of ignition. VAPORS MAY IGNITE AND EXPLODE. DO NOT SMOKE.** Use only in well ventilated areas. Open doors and windows during use. Harmful if inhaled/swallowed. Causes skin/eye/digestive tract burns. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. May cause allergic skin reaction. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. **Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. Strictly follow all usage, handling and storage instructions.**

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.





# Industrial Flooring

## First Aid

**Eyes** – Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin** – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation** – Remove to fresh air. **Ingestion** – Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact a physician immediately if symptoms persist.**

## Handling and Storage

**COMPONENT A: Keep away from heat, sparks, sunlight, electrical equipment or flame. VAPORS MAY IGNITE AND EXPLODE. DO NOT SMOKE.** Open doors and windows during use. Use adequate local and mechanical ventilation. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use properly fitted NIOSH vapor cartridge respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing after use. Store product in tightly sealed containers in a cool, dry well ventilated area at temperatures between 40° F(+4°C) and 90°F(+32°C) away from ignition sources.

Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

**COMPONENT B: Avoid direct contact. Keep away from heat, sparks, sunlight, electrical equipment or flame. VAPORS MAY IGNITE AND EXPLODE. DO NOT SMOKE.** Open doors and windows during use. Use adequate local and mechanical ventilation. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use properly fitted NIOSH vapor cartridge respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing after use. Store product in tightly sealed containers in a cool, dry well ventilated area at temperatures between 40° F(+4°C) and 90°F(+32°C) away from ignition sources.

Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

## Clean Up

**COMPONENT A:** In case of spill, eliminate all ignition and heat sources, if safe to do so. Ventilate area. Open doors and windows. Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Confine spill, collect using noncombustible absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations.

**COMPONENT B:** Avoid direct contact. In case of spill, eliminate all ignition and heat sources, if safe to do so. Ventilate area. Open doors and windows. Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. Confine spill, collect using noncombustible absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations. Cured material can only be removed mechanically.

**KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY**

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at [www.sikausa.com](http://www.sikausa.com) or by calling 800-933-7452.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Material Safety Data Sheet which are available online at [www.sikausa.com](http://www.sikausa.com) or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product as set forth in the current Product Data Sheet, product label and Material Safety Data Sheet prior to product use.

**LIMITED WARRANTY:** Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKAShall NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKAShall NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Visit our website at [www.sikausa.com](http://www.sikausa.com)

1-800-933-SIKA NATIONWIDE

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# Sikafloor® 264

## Versatile Colored Epoxy Resin for High Performance Floor Finishes

<b>Description</b>	Sikafloor 264 is a pigmented, two part low viscosity, self-priming, epoxy coating / binder used for smooth and textured coatings and/or broadcast overlays.
<b>Where to Use</b>	Roller coat and self-leveling slurry for concrete and cement screeds with normal up to medium heavy wear (e.g. storage, hallways, corridors and assembly halls, maintenance workshops, garages and loading ramps), or as a seal coat for broadcast systems. When used as a primer, Sikafloor 264 can be considered when $\leq 4\%$ moisture content by mass (pbw – part by weight) is measured on the concrete substrate with a Tramex® CME/CMExpert type concrete moisture meter.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Good chemical and mechanical resistance</li> <li>■ Easily applied with brush, roller or squeegee</li> <li>■ Glossy aesthetic finish</li> <li>■ Slip resistant surface possible</li> <li>■ Durable, impermeable and seamless</li> <li>■ Solvent-free, neutral odor</li> <li>■ Low mixed viscosity</li> </ul>

### TYPICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Packaging</b>	Component A: 3.0 US gal. (11.4 L)	Component A: 50 US gal. (189 L) (2 units needed)
	Component B: 1.5 US gal. (5.7 L)	Component B: 50 US gal. (189 L)
	Components A+B: 4.5 US gal. (17 L) (Ready to mix unit)	Components A+B: 150 US gal. (568 L)

<b>Color</b>	Sikafloor standard epoxy colors. (Oxford Gray, Beige Rose) Refer to Industrial Flooring color card. Custom colors available upon request. Refer to current price list for availability.
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<b>Coverage</b>	<b>Smooth Finish Coating:</b>
	Prime coat: 160 - 200 ft <sup>2</sup> / US gal (3.9 - 4.9 m <sup>2</sup> / L) at 8 - 10 mils (0.20 - 0.25 mm) wet film thickness (w.f.t.).
	Wear coat: 105 - 135 ft <sup>2</sup> / US gal (2.6 - 3.3 m <sup>2</sup> / L) at 12 - 15 mils (0.30 - 0.38 mm) wet film thickness (w.f.t.)

### Slurry Layer:

36 ft<sup>2</sup> / US gal.\* @ 60 mils.

26.5 ft<sup>2</sup> / US gal.\* @ 80 mils.

18 ft<sup>2</sup> / US gal.\* @ 120 mils

\* 1 Mixed US gal. of Sikafloor 264 plus 5.6 Lbs. of Sikadur 504 type filler.

For a full ready to mix unit (4.5 Mixed US gal.) of Sikafloor 264 add 25 Lbs. of Sikadur 504 type filler.

The use of a different filler other than Sikadur 504, may change the theoretical coverage rates as displayed above.

<b>Pot Life</b>	<b>Material Temperature</b>	<b>Time</b>
	+50°F (10°C)	~ 50 minutes
	+68°F (20°C)	~ 25 minutes
	+86°F (30°C)	~ 15 minutes

### Waiting / Recoat Times

Before applying second coat of Sikafloor 264 on Sikafloor 264 allow.

Ambient & Substrate Temperature	Minimum	Maximum
+50°F (10°C)	24 hours	3 days
+68°F (20°C)	8 hours	2 days
+86°F (30°C)	6 hours	1 day

Before applying Sikafloor Epoxy or Polyurethane on Sikafloor 216 allow.

Ambient & Substrate Temperature	Minimum	Maximum
+50°F (10°C)	24 hours	3 days
+68°F (20°C)	8 hours	2 days
+86°F (30°C)	6 hours	1 day

<b>Cure Times</b>	<b>Ambient &amp; Substrate Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+50°F (10°C)	~ 24 hours	~ 6 days	~ 10 days
	+68°F (20°C)	~ 8 hours	~ 4 days	~ 7 days
	+86°F (30°C)	~ 6 hours	~ 2 days	~ 5 days



**Properties Tested at 73°F (23°C) and 50 % R.H:**

<b>Solid Content</b>	~ 100% (by volume) / ~ 100% (by weight)
<b>Compressive Strength</b>	ASTM C579 7,250 psi (50 N/mm <sup>2</sup> ) (28 days)
<b>Flexural Strength</b>	ASTM C580 2,900 psi (20 N/mm <sup>2</sup> ) (28 days)
<b>Pull-off Strength</b>	ASTM D4541 > 400 psi (2.7 MPa) (100% concrete failure)
<b>Shore D Hardness</b>	ASTM D2240 76 (7 days)
<b>VOC Content</b>	ASTM D2369 ≤ 30 g/L
<b>Shelf Life</b>	2 years in unopened container, Store dry between 40° - 90°F (4° - 32°C)
<b>Chemical Resistance</b>	Please consult Sikafloor Technical Services.

**How to Use  
Surface  
Preparation**

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. **Concrete** - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer/coating and the substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

**Priming**

**Primer or Smooth Finish Coating:**

Priming for concrete substrate is required. Prime with either **Sikafloor 107, Sikafloor 160, Sikafloor 161 or Sikafloor 1610**. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate. Sikafloor 264 may be used as primer on concrete substrates for Sikafloor Coating Systems subjected to light traffic use.

**Please refer to the most current and respective Product Data Sheet for further information.**

**Mixing**

**Mixing Ratio - 2 : 1 by volume.**

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

**Primer and Wear Coat:**

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

**Self-leveling Slurry:**

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 1 minute using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Add Sikadur 504 type filler and mix for additional 2 minutes. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the slurry. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

**Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.**





## Application

### As Primer:

Apply primer by squeegee at the rate of 160 - 200 ft<sup>2</sup> / US gal (3.4 - 4.9 m<sup>2</sup> / L) at 8 - 10 mils (0.20 - 0.25 mm) wet film thickness (w.f.t.) and back roll with pressure after 15 minutes. Coverage will vary depending on the porosity of the prepared floor. Product has a limited Pot Life, see Typical Data. Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the surface to be coated, then spread with squeegee and back roll. Ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate.

### As Wear and Sealer Coat:

Sikafloor 264 is applied with a 40 mil (1 mm) notched squeegee over a smooth surface and a flat squeegee over a rough or broadcast quartz surface. Back rolling is typically done with an 18 inch (455 mm) wide 3/8 inch (10 mm) short nap, solvent-resistant roller cover. Back roll the Sikafloor 264 only to level the squeegee applied material. Over-rolling and late back back rolling may cause bubbling and leave roller marks.

### Smooth Finish Self-Leveling Slurry:

Pour a bead of product to the surface to be coated, then spread with a notched squeegee or pin rake to the desired thickness. Roll immediately (within max. 10 minutes of application) in two directions with a spiked roller to ensure even thickness and the removal of entrapped air. To obtain a higher aesthetic finish, spike roll in two directions at a 90 degree angle by passing only once in each direction. The product has a limited Pot Life, see Typical Data.

## Limitations

### Notes on Limitations:

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

**Substrate Moisture Content:** Moisture content of concrete substrate must be ≤ 4% by mass (pbw - part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 1610 or Sikafloor 81 EpoCem.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85%. If values are > 85% according to ASTM F2170 use Sikafloor 1610 or Sikafloor 81 EpoCem.

ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.

**Material Temperature:** Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)

**Ambient Temperature:** Minimum/Maximum 50°/85°F (10°/30°C)

**Substrate Temperature:** Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

**Ambient Relative Humidity:** Maximum ambient humidity 85% (during application and curing)

**Dew Point:** Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

**Mixing:** Do not hand mix Sikafloor materials. Mechanically mix only.

Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty. Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.

**Application:** If used as a primer apply material to the prepared substrate using a squeegee and back roll to provide uniform coverage. Ensure that the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.



# Industrial Flooring

**Sika**®

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- For professional use only by experienced applicators.

## Caution

**Always read Safety Data Sheet and Product Data Sheet prior to use.**

**COMPONENT A:** Danger Contains: Quartz (SiO<sub>2</sub>) (CAS: 14808-60-7), bisphenol-A-(epichlorhydrin) epoxy resin (CAS: 25068-38-6), Benzyl alcohol (CAS: 100-51-6), bisphenol-F-(epichlorhydrin) epoxy resin (CAS: 28064-14-4), oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (CAS: 68609-97-2), Quartz (SiO<sub>2</sub>) <5µm (CAS: 14808-60-7). Combustible liquid. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. **WARNING!** This product contains a chemical known in the State of California to cause cancer. **WARNING:** This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. HMIS: \*3, 2, 0, X. VOC: < 30 g/l (A+B Combined). Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/ face protection. Wear protective gloves. Use personal protective equipment as required. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use .? for extinction. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

**COMPONENT B:** Danger Contains: Benzyl alcohol (CAS: 100-51-6), Isophoronediamine (CAS: 2855-13-2), mphenylenebis( methylamine) (CAS: 1477-55-0), Phenol, 4-dodecyl-, branched (CAS: 210555-94-5), 2,4,6- tris(dimethylaminomethyl)phenol (CAS: 90-72-2). Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects. HMIS: \*3, 1, 0, X. VOC: < 30 g/l (A+B Combined). Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection. Use personal protective equipment as required. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. Immediately call a POISON CENTER or doctor/ physician. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/ container to an approved waste disposal plant.



# Industrial Flooring



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# Sikafloor® 340

## Abrasion and UV Resistant Aliphatic Urethane

<b>Description</b>	Sikafloor 340 is an aliphatic urethane with excellent chemical resistance and UV resistance.
<b>Where to Use</b>	Sikafloor 340 is typically used in areas such as aircraft hangars, light to medium traffic areas, where light reflectance and chemical resistance to spills are required. It can be used as two part clear and three part pigmented coating.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ VOC compliant in 340 g/L regulated districts</li> <li>■ Excellent UV resistance</li> <li>■ Light reflectance</li> <li>■ Good stain resistance</li> <li>■ High abrasion resistance</li> <li>■ Excellent chemical resistance</li> <li>■ Wide range of colors using Sikafloor Urethane Color Additive</li> <li>■ Clear or Pigmented</li> </ul>

### TYPICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Packaging</b>	Component A: 1.50 gal. (5.67 L) Isocyanate Component B: 1.00 gal. (3.78 L) Catalyst Color Additive: 0.25 gal. (0.95 L) Component A+B: 2.75 gal. (10.41 L) (Only recommended for pigmented use)	Component A: 5 gal. (18.9 L)* Isocyanate Component B: 5 gal. (18.9 L) Catalyst Component A+B: 15 gal. (56.7 L) *(2 Units needed)
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<b>Color</b>	Clear or pigmented with Sikafloor Polyurethane Color Additive, 1-quart (0.95 L) size per 2.5 mixed US gallon.
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<b>Coverage</b>	Depending upon profile of existing surface, coverage is approximately
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350 ft<sup>2</sup> per gallon (8.6m<sup>2</sup>/L) per coat,  
 Clear at 350 - 400 ft<sup>2</sup> per gallon (8.6 - 9.8 m<sup>2</sup>/L) at 4 - 5 wet mils  
 Wet: 4.0 - 5.0 mils / coat  
 Dry: 2.0 - 3.0 mils / coat  
 Two (2) coats are suggested over a primed surface  
 (The above figures do not allow for surface profile or wastage)

<b>Pot Life</b>	<table> <tr> <th>Material Temperature</th><th>Time</th></tr> <tr> <td>+50°F (10°C)</td><td>~ 45 minutes</td></tr> <tr> <td>+68°F (20°C)</td><td>~ 30 minutes</td></tr> <tr> <td>+86°F (30°C)</td><td>~ 15 minutes</td></tr> </table>	Material Temperature	Time	+50°F (10°C)	~ 45 minutes	+68°F (20°C)	~ 30 minutes	+86°F (30°C)	~ 15 minutes
Material Temperature	Time								
+50°F (10°C)	~ 45 minutes								
+68°F (20°C)	~ 30 minutes								
+86°F (30°C)	~ 15 minutes								
	*Do not apply after indicated Pot Life is exceeded. End of Pot Life is not visible.								

Waiting / Recoat Times	Before applying second coat of Sikafloor 340 allow:		
	Ambient & Substrate Temperature	Minimum	Maximum
	+50°F (10°C)	24 hours	3 days
	+68°F (20°C)	8 hours	2 days
	+86°F (30°C)	6 hours	1 day

<b>Cure Times</b>	<b>Ambient &amp; Substrate Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+50°F (10°C)	~ 24 hours	~ 6 days	~ 10 days
	+68°F (20°C)	~ 12 hours	~ 4 days	~ 7 days
	+86°F (30°C)	~ 6 hours	~ 2 days	~ 5 days

### Properties Tested at 73°F (23°C) and 50 % R.H.:

<b>Abrasion Resistance</b> (CS-17 Wheel, 1000 gm load, 1000 cycles)	ASTM D4060	18 mg loss
<b>VOC Content</b>	ASTM D2369	≤ 280 g/L
<b>Slip Resistance</b>	ASTM D2369	With Sikafloor Urethane Color Add Only ≤ 290 g/L
<b>Chemical Resistance</b>	Equivalent to ASTM D2047	Passes
	Please consult Sikafloor Technical Services	



## How to Use Surface Preparation

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. **Concrete** - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

## Priming

Priming for concrete substrate is required. Prime with either **Sikafloor 107**, **Sikafloor 160**, **Sikafloor 161** or **Sikafloor 1610**. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate. **Please refer to the individual most current and respective Product Data Sheet for specific and detailed information.**

## Mixing

**Mixing Ratio** - 2 : 1 by volume.

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

### Clear Resin:

Premix each component separately and divide each component into smaller portion (i.e. 2 gal. Component - A and 1 gal. Component - B). Empty contents of Component A or correctly measured part of such into a suitably sized and clean mixing container and add contents of Component B or correct ratio of such. Prepare only that quantity which can be used within the pot life of the material. Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

**Mixing Ratio** - 1.5:1 by volume + 1 quart Sikafloor Polyurethane Color Additive.

### Field Pigmented:

Premix each component separately. If color is desired, the appropriate Sikafloor Urethane Color Additive is added to Component A at a rate of 1 quart per 2.50 mixed gallons (i.e. Components A+B). Mix Component A (Isocyanate) and Sikafloor Polyurethane Color Additive for 2 minutes or until a uniform color is achieved with a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume. Empty component - B (Catalyst) in the correct mix ratio to component - A (Isocyanate) and mix for additional 2 minutes. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in coating. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

**Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature**

## Application

Pour a thin bead (approximately 6"-12" wide) of Sikafloor 340 on the surface, use a flat squeegee to distribute the material evenly and back roll. Back roll the Sikafloor 340 only to level the thickness of material applied. Do not apply in excess of 5 mils (0.125mm) WFT, failure of the coating may occur. Divide the floor into sections (at expansion joints or doorways when possible) that can be completed without stopping. Where a section will end, it should be taped off to form a straight line providing a clean edge for an adjacent section. Back rolling is typically done with an 18-inch (.5 m) short nap, 3/8-inch (9.5 mm), solvent resistant roller cover. Over-rolling may cause non-uniform sections and bubbling.

## Limitations

### Notes on Limitations:

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

**Substrate Moisture Content:** Moisture content of concrete substrate must be  $\leq 4\%$  by mass (pbw - part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels  $> 4\%$  mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is  $> 4\%$  by mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 1610 or Sikafloor 81 EpoCem.



When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be  $\leq 85\%$ . If values are  $> 85\%$  according to ASTM F2170 use Sikafloor 1610 or Sikafloor 81 EpoCem.

ASTM F2170 testing is **not** a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.

**Material Temperature:** Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)

**Ambient Temperature:** Minimum/Maximum 50°/85°F (10°/30°C)

**Substrate Temperature:** Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

**Relative Ambient Humidity:** Minimum ambient humidity 30%

Maximum ambient humidity 75% (during application and curing)

**Dew Point:** Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

**Mixing:** Do not hand mix Sikafloor materials. Mechanically mix only.

Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.

**Application:** Apply the coating to the prepared substrate which should be pore-free and pinhole-free. If necessary, apply an additional coat of a suitable material to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- Vapors from this product can be objectionable to people unaccustomed to the odor; do not apply in or around buildings occupied by non-construction personnel without consulting building management.
- Do not apply at a mil thickness greater than recommended. Too thick of an application may result in solvent entrapment and improper curing.
- For professional use only by experienced applicators.

## Caution

**COMPONENT A: WARNING: COMBUSTIBLE, IRRITANT.** Contains Solvents (Mixture). **Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE.** Use only in well ventilated areas. Open doors and windows during use. May cause eye/respiratory irritation. Harmful if absorbed through skin or swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Deliberate misuse by inhalation of vapors can be harmful or fatal.

**Strictly follow all use, handling and storage instructions.**

**COMPONENT B: WARNING: COMBUSTIBLE, IRRITANT, SENSITIZER.** Contains Polyisocyanate Prepolymer (Mixture), 1,2,4-Trimethylbenzene (CAS 95-63-6). **Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE.** Use only in well ventilated areas. Open doors and windows during use. Eye irritant. May cause skin irritation. May cause skin and/or respiratory sensitization after prolonged and repeated contact. Harmful if swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Deliberate misuse by inhalation of vapors can be harmful or fatal.

**Strictly follow all use, handling and storage instructions.**





# Industrial Flooring

<b>First Aid</b>	<b>Eyes</b> – Hold eyelids apart and flush thoroughly with water for 15 minutes. <b>Skin</b> – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. <b>Inhalation</b> – Remove to fresh air. <b>Ingestion</b> – Do not induce vomiting. Dilute with water. <b>Contact physician.</b> In all cases contact a physician immediately if symptoms persist.
<b>Handling and Storage</b>	<b>Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE.</b> Open doors and windows during use. Use adequate local and mechanical ventilation. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use properly fitted NIOSH vapor cartridge respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing after use. Store product in tightly sealed containers in a cool, dry well ventilated area at temperatures between 40°F and 95°F and away from ignition sources. Empty containers may contain product residue including flammable or explosive vapors. Do not cut or puncture empty container.
<b>Clean Up</b>	<b>In case of spill, keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE.</b> Ventilate area. Open doors and windows. Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Confine spill, collect using noncombustible absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations.

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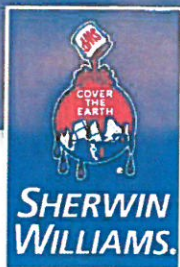
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**Sika**®

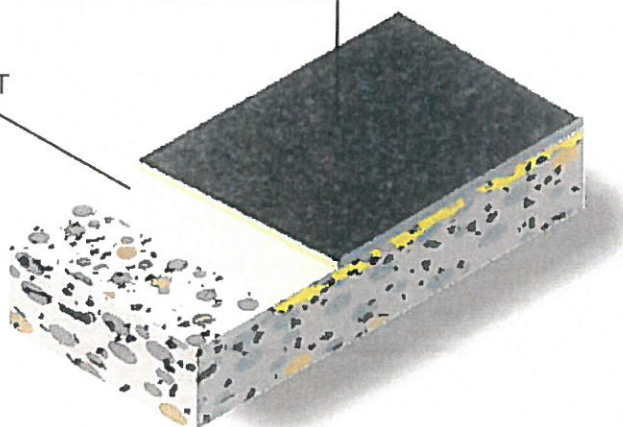


# Resuprime™ MVT

**Resuprime™ MVT** is a fast curing, two-component, epoxy resin that is tolerant of residual moisture in concrete floors and walls. This enables earlier access onto new concrete substrates for the application of General Polymers® systems. Resuprime MVT is formulated to prevent moisture related disbondment of non-permeable resinous systems.

General Polymers®  
System

Resuprime™ MVT



## Advantages

- Moisture insensitive to 15 lbs or 97% RH
- Withstands vapor emissions
- Low odor
- Excellent adhesion

## Uses

- For impermeable flooring and wall systems
- Use when moisture readings are less than 15 lbs, as measured by ASTM F1869 or less than 97% relative humidity as measured by ASTM F2170.
- Can be applied to saturated surface dry (SSD) concrete

## Limitations

- Do not apply to wet surfaces
- Substrate must be structurally sound and free of bond inhibiting contaminants.
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50°F (for lower temperature installation contact the Technical Service Department)
- Concrete must have an effective vapor barrier

## Typical Physical Properties for Resuprime MVT only

Color	Clear
Mix Ratio A:B	Pre-packaged components Approximately 2:1
Pot Life	15 minutes
Solids, by weight	98% ± 2%, mixed
VOC (Volatile Organic Content) EPA Method 24	<100 g/L mixed; 0.83 lb/gal
Coverage: @ 8-10 mils WFT @ 16-20 mils WFT	160-200 sq. ft/gal 80-100 sq. ft/gal
Cure Time	Dry to Touch           4-6 hrs Recoat               10-12 hrs Light Traffic       18-24 hrs



## Installation

The following information is to be used as a guideline for the installation of the **Resuprime™ MVT system**. Contact the Technical Service Department for assistance prior to application if required.

### Surface Preparation — General

General Polymers systems can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project. Refer to Surface Preparation (Form G-1).

### Surface Preparation - Concrete

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile of CSP 3-4. Refer to Form G-1.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system compatible filler. For recommendations, consult the Technical Service Department.

### Temperature

Throughout the application process, substrate temperature should be 50°F - 90°F (Min 40°F for low temp). Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible.

## Application Information — Surface Prep Profile CSP 3-4

VOC MIXED	MOISTURE READING	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<100 g/L	< 8 lbs or <85% RH	Resuprime™ MVT	Pre-packaged (Approx. 2:1)	160-200 sq. ft./gal (8-10 mils DFT)	Approx. 1.32 gal or 3.96 gal kits
Proceed with resinous floor installation					

VOC MIXED	MOISTURE READING	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<100 g/L	< 15 lbs or <97% RH	Resuprime™ MVT	Pre-packaged (Approx. 2:1)	80-100 sq. ft./gal (16-20 mils DFT)	Approx. 1.32 gal or 3.96 gal kits
Proceed with resinous floor installation					

VOC MIXED	MOISTURE READING	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<100 g/L	< 8 lbs or <85% RH	Resuprime™ MVT Low Temp	Pre-packaged (Approx. 1.28:1)	160-200 sq. ft./gal (8-10 mils DFT)	Approx. 1.32 gal or 4.01 gal kits
Proceed with resinous floor installation					

VOC MIXED	MOISTURE READING	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<100 g/L	< 15 lbs or <97% RH	Resuprime™ MVT Low Temp	Pre-packaged (Approx. 1.28:1)	80-100 sq. ft./gal (16-20 mils DFT)	Approx. 1.32 gal or 4.01 gal kits
Proceed with resinous floor installation					

## **Option #1 (< 8 lbs moisture reading or <85% RH)**

### **Mixing and Application**

1. Add resin to hardener. Mix with low speed drill and Jiffy blade until uniform. To insure proper system cure and performance, do not deviate from the pre-packaged quantities.
2. Apply using a tight squeegee coat and backroll with a high quality 3/8" nap roller. Apply at a spread rate of 8-10 mils evenly with no puddles making sure of uniform coverage.
3. Allow to cure 6\* hours minimum for standard cure, and 4\* hours for low temp.
4. Proceed with resinous system installation.

## **Option #2 (< 15 lbs moisture reading or <97% RH)**

### **Mixing and Application**

1. Add resin to hardener. Mix with low speed drill and Jiffy blade until uniform. To insure proper system cure and performance, do not deviate from the pre-packaged quantities.
2. Apply using a tight squeegee coat and backroll with a high quality 3/8" nap roller. Apply at a spread rate of 16-20 mils evenly with no puddles making sure of uniform coverage.
3. Allow to cure 6\* hours minimum for standard cure, and 4\* hours for low temp.
4. Proceed with resinous system installation.

\* Cure times vary depending on environmental conditions

## **Cleanup**

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

## **Safety**

Refer to the MSDS sheet before use. federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials.

Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

## **Material Storage**

Store materials in a temperature controlled environment (50°F – 90°F) and out of direct sunlight.

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition.

## **Maintenance**

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.



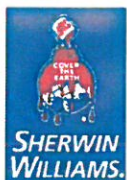
## Disclaimer

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult [www.generalpolymers.com](http://www.generalpolymers.com) to obtain the most recent Product Data information and Application instructions.

## Warranty

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



**To learn more, visit us at**

[www.sherwin-williams.com/protective](http://www.sherwin-williams.com/protective)

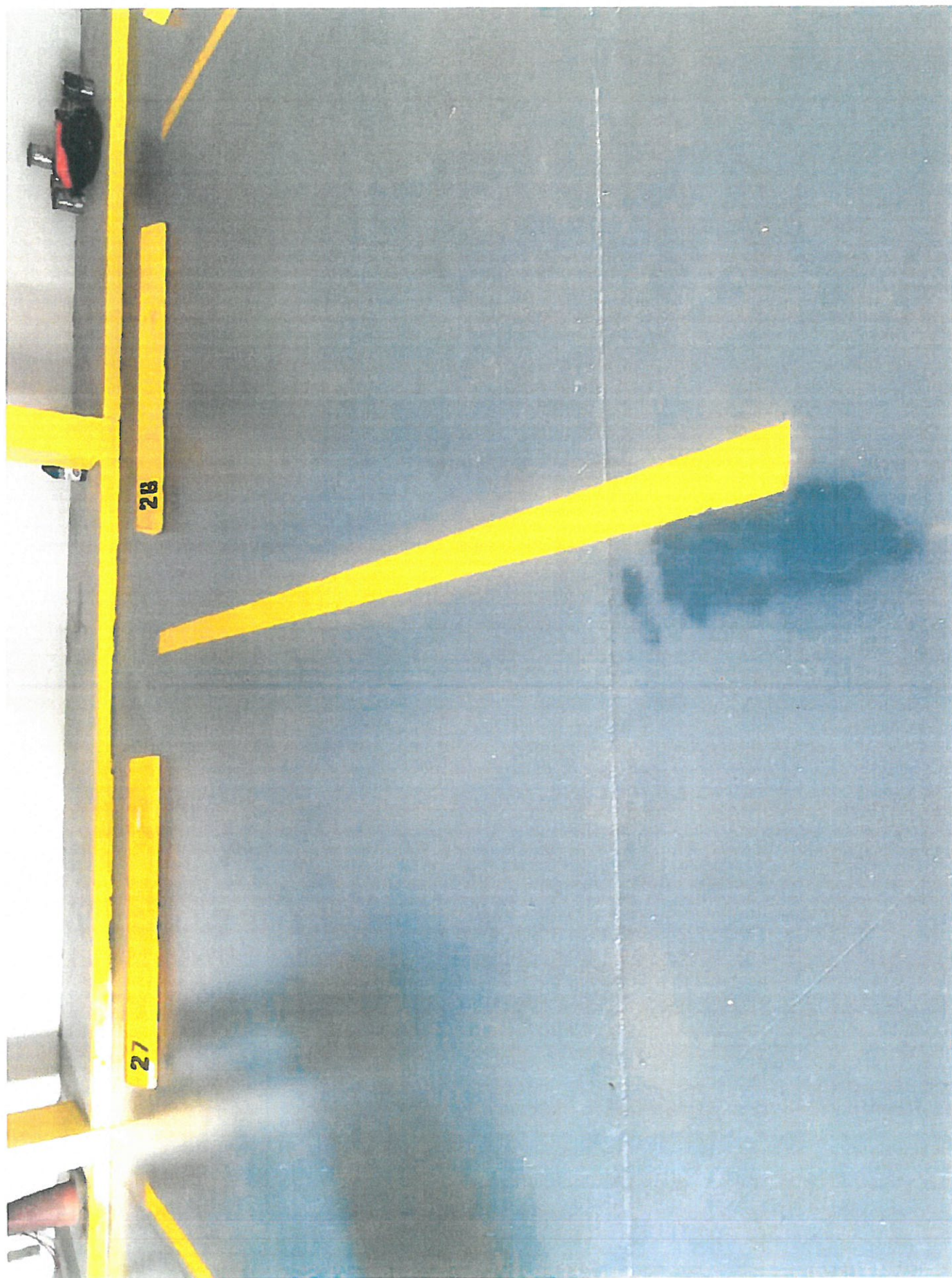
or call 1-800-524-5979

to have a representative contact you.

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Protective & Marine Coatings 08-17











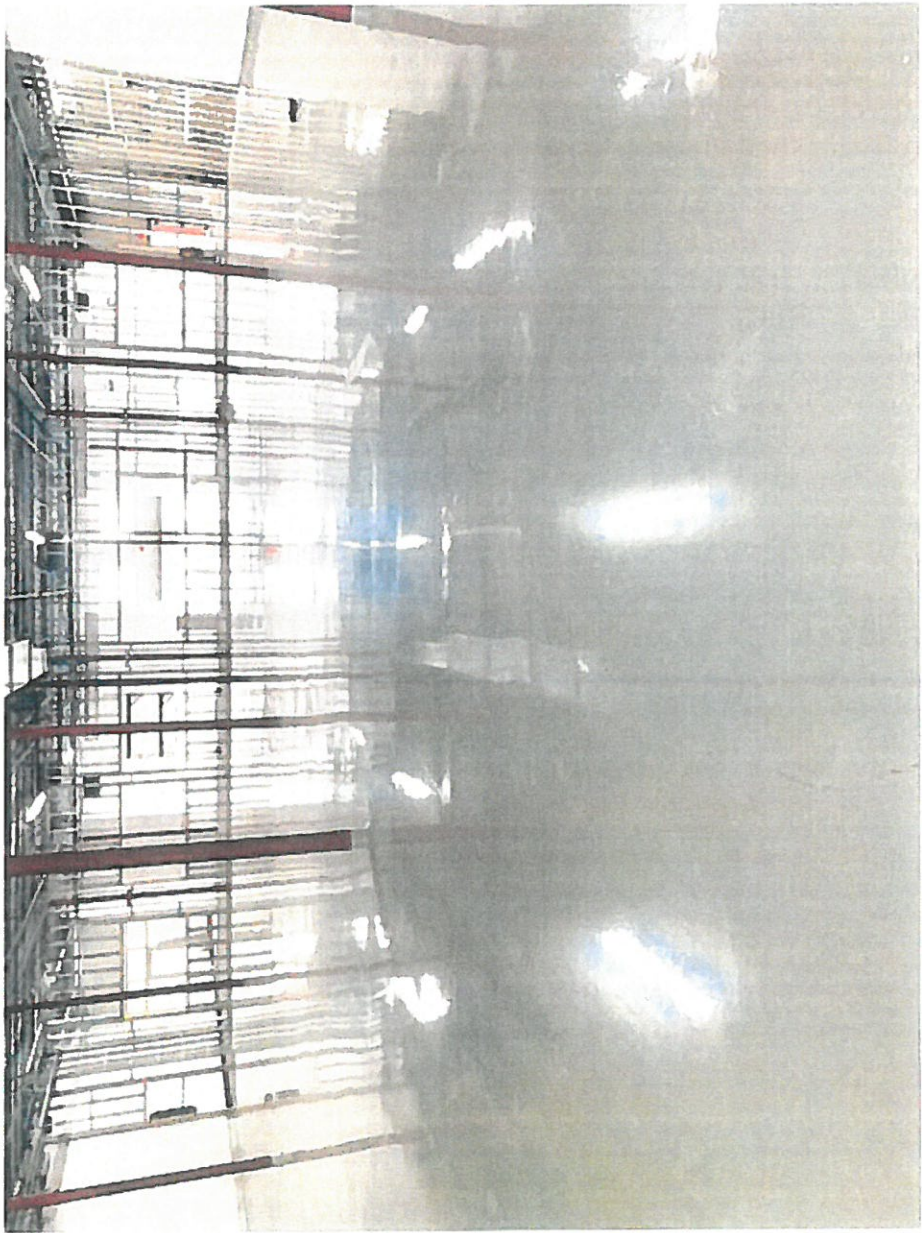




















## F L O O R I N G   P R O P O S A L

**To:** Key Large Fire Department  
1 East Drive  
Key Largo, FL 33037  
(305) 451-2700

**Date:** 10/27/2020

Chris Jones - Captain  
(954)234-8077  
cjones@keylargofire.org

**From:** National Concrete Polishing  
Michael Reddy/Jim Boughey

**For:** Key Largo Fire Station #24  
1 East Drive  
Key Largo, FL 33037

### Estimate Based On:

- Site visit 10/22/2020
- 3,300 SF
- Areas the proceeding work is to be performed are: Apparatus Bay including apron, two storage rooms, and washing room

### Description:

### Line Cost

#### Option 1:

\$18,550.00

#### 1/30" Epoxy/Polyaspartic thinmil floors to the following specifications:

- Diamond-grind floor to prepare substrate and ensure proper bond with the epoxy flooring system
- Patch control joints, divots, and cracks
- Cut/chase/v-cut expansion joint between exterior slab and apron and fill with Sika Self Leveling Sealant
- Repair spalls adjacent to expansion joint with MM Armor Hard or equal
- Install XPS VRM 100% Solids Epoxy Moisture barrier pigmented primer at 150 SF/gallon
- Install XPS ECTR 100% Solids Epoxy pigmented base coat at 100 SF/gallon
- Install XPS XTop 8000 pigmented polyaspartic topcoat with Spartagrip additive
- Install six contrasting lines for Engine parking with XPS XTop 8000

#### Option 2:

\$26,800.00

#### 1/8" Double Broadcast Epoxy Silica Floor to the following specifications:

- Diamond-grind floor to prepare substrate and ensure proper bond with the epoxy flooring system
- Patch control joints, divots, and cracks
- Cut/chase/v-cut expansion joint between exterior slab and apron and fill with Sika Self Leveling Sealant
- Repair spalls adjacent to expansion joint with MM Armor Hard or equal



<ul style="list-style-type: none"> <li>- Install broadcast coat XPS VRM 100% Solids Epoxy Moisture barrier at 120 SF/gallon, Broadcast of #12/#13 silica at ½ lb per ft<sup>2</sup></li> <li>- Install second broadcast coat XPS ECTR 100% Solids Epoxy at 75 SF/gallon, Broadcast of #12/#13 silica at ½ lb per ft<sup>2</sup></li> <li>- Install XPS ECTR 100% Solids Epoxy pigmented grout coat at 75 SF/gallon</li> <li>- Install XPS XTop 8000 pigmented polyaspartic topcoat</li> <li>- Install six contrasting lines for Engine parking with XPS XTop 8000</li> </ul>	
<p><b>Option 3:</b>  <u>1/4" Troweled Epoxy Mortar System to the following specifications:</u></p> <ul style="list-style-type: none"> <li>- Diamond grind concrete to prepare substrate and ensure proper bond with the epoxy flooring system</li> <li>- Patch control joints, divots, and cracks</li> <li>- Cut/chase/v-cut expansion joint between exterior slab and apron and fill with Sika Self Leveling Sealant</li> <li>- Repair spalls adjacent to expansion joint with MM Armor Hard or equal</li> <li>- Install XPS VRM 100% Solids Epoxy Moisture barrier primer at 150 SF/gallon</li> <li>- Install by trowel or gauge rake 3/16" Epoxy Mortar base coat (100 lbs angular sand per 1 gallon XPS ECTR 100% Solids Epoxy)</li> <li>- Install XPS ECTR 100% Solids Epoxy pigmented grout coat at 75 SF/gallon</li> <li>- Install XPS XTop 8000 pigmented polyaspartic topcoat</li> <li>- Install six contrasting lines for Engine parking with XPS XTop 8000</li> </ul>	\$42,240.00
<p><b>Options:</b></p> <ul style="list-style-type: none"> <li>- Logo: 5' x 5', add \$500.00.</li> <li>- For additional phases, for example to do the project in two sections concurrently, add: \$2,800.00 for Option 1, \$5,500.00 for Option 2, and \$5,500.00 for Option 3.</li> </ul>	
<p><b>Scheduling &amp; Mobilizations:</b></p>	
<p>This estimate is based on:</p> <ul style="list-style-type: none"> <li>- <u>Single mobilization</u> - Perform application to completion.</li> </ul>	
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Includes 3-year (Option 1), 10-year (Option 2), and 20-year (Option 3) warranties against failure related to product or workmanship including delamination.</li> <li>- Customer must provide access for our equipment to all areas and levels. Customer will be responsible for hoisting or lifting equipment if it is required.</li> <li>- Customer must have the entire floor areas clear and clean of debris before our arrival to perform work on the entire area. If it is not or we are asked to work on only partial areas at any one time additional charges may apply.</li> </ul>	

Michael Reddy/Jim Boughey  
 mreddy@xtremepolishingsystems.com, jboughey@nationalconcretepolishing.net  
 Xtreme Polishing Systems/National Concrete Polishing  
 --  
 2200 NW 32nd St #700  
 Pompano Beach, FL 33069



# PACT-8000

## Solvent Based Polyaspartic Polyurea, Low Odor

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### Description

**PACT-8000** is a two-component, 83% solids, VOC compliant, aliphatic polyaspartic polyurea that was developed for UV stable floor topcoats. It provides outstanding appearance, superior chemical, UV, and solvent resistance. It exhibits excellent physical properties. This system has been approved by the Canadian Food Inspection Agency (CFIA). **PACT-8000** also meets FDA and USDA requirements.

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### Primary applications

- ✓ Marine protection for fiberglass, steel, concrete or wood
- ✓ UV-stable top coat
- ✓ Aircraft hangar floors
- ✓ Low temperature equipment
- ✓ Maintenance facilities
- ✓ Offshore platforms
- ✓ Industrial shop floors
- ✓ Car washes or wash bays
- ✓ Secondary Containment
- ✓ Cooling towers
- ✓ Bridges
- ✓ Wastewater treatment applications

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### Advantages

- ✓ Long pot life (80 min to 90 min)
  - ✓ Low Odor
  - ✓ Displays fast cure times with excellent adhesion
  - ✓ Superior chemical resistance
  - ✓ Superior abrasion resistance
  - ✓ Non yellowing and good gloss retention
  - ✓ Easy to mix 1:1 ratio by volume
  - ✓ Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate
  - ✓ VOC compliant in Canada and the United States
-





# PACT-8000

**Solvent Based  
Polyaspartic Polyurea, Low Odor**

## TECHNICAL DATA

Packaging litres / gal us		Color				
7.56 / 2	37.8 / 10	Part A	Part B	Mixture		
Recommended Thickness		Light Yellow	Clear	Light Yellow		
Primer : UCT-PU	8 mils / 200 ft² us gal	<b>Shelf Life</b>  12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.				
Topcoat on solid color PACT 8000	8 mils / 200 ft² us gal					
Topcoat on vinyl flakes: PACT 8000	8 - 12mils / 133-200 ft² us gal					
Mix Ratio by volume						
A : B = 1 : 1						
<i>*Please note that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.</i>						
Pot life (150g)	Solids by weight %	Density (kg/litre)				
45 - 60 minutes 25°C	82	Part A	Part B	Mixture		
VOC (g/litre)	Recommended Thinner	1.05 - 1.07	1.11 - 1.13	1.08 - 1.10		
82.74	xylene	Solids by weight %				
Viscosity @ 25°C (cps)	Part A	Part B	Mixture	Part A	Part B	Mixture
	200 - 300	80 - 100	125 - 175	92	65	82
Waiting time between coats						
Min / 4-6 hours – max / 24 hours						
Foot Traffic	12 – 24 hours					
Light Traffic	48 hours					
Chemical Resistance	72 hours					
<i>*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.</i>						

## PROPERTIES @ 23°C (73°F) 50% R.H.

Adhesion (concrete-primer) ASTM D4541	Water Absorption (%) ASTM D570
550 psi (substrate ruptures)	0.2
Hardness (Shore D) ASTM D2240	Tensile Strength (psi) ASTM D638
75 - 78	6500 - 7500
Compressive Strength ASTM D695	Elongation at break (%) ASTM D638
9500 psi	100
Abrasion Resistance, ASTM D4060 (CS17/1000 cycles/ 1000 g)	Flexibility, 1/8" Mandrel, ASTM D1737
30 mg loss	Pass
	Tear Strength (PLI), ASTM D2240





# PACT-8000

**Solvent Based  
Polyaspartic Polyurea, Low Odor**

<b>Water Vapor Transmission, ASTM E96</b>	350
<b>Water procedure B Film 0.01 cm (0.004")</b>	
1 perm	

## SURFACE PREPARATION

The surface to be coated must be well primed. Remove dust, laitance, grease, oils, dirt, impregnating agents, waxes, foreign matter, any previous coatings, and disintegrated substances by mechanical means such as shot-blasting (BLASTAC) or any other approved method to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 lbs/in<sup>2</sup>) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in<sup>2</sup>).

## MIXING

The products must be conditioned at a temperature between 18 ° C (65 ° F) and 30 ° C (86 ° F). Mix the resin part (A) perfectly before pouring the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.

## APPLICATION

### APPLICATION : Primer coat of UCT-PU

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating. Apply evenly and avoid creating excess pools of material.

### APPLICATION : Finish coat of PACT-8000

Apply the finish coat using a rubber squeegee and pass a roller to obtain a uniform coating. Apply evenly and avoid creating excess pools of material.

## CLEANING

Clean all application equipment with the recommended cleaner (SCT-0001). Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water.





# PACT-8000

**Solvent Based  
Polyaspartic Polyurea, Low Odor**

## RESTRICTIONS

- ✓ Do not apply at temperatures below 10 ° C / 50 ° F or above 30 ° C / 86 ° F
- ✓ The relative humidity of the surrounding work environment during the application of the coating and throughout the curing process should not exceed 85%
- ✓ Substrate temperature must be 3 ° C (5.5 ° F) above dew point measured
- ✓ Humidity content of substrate must be <4% when coating is applied
- ✓ Do not apply on porous surfaces where a transfer of humidity may occur during the application
- ✓ The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure).
- ✓ Protect the coating from all sources of moisture for a period of 48 hours

## CHEMICAL RESISTANCE

CHEMICAL	RESULTS (25°C)
Acetic Acid 100%	C
Acetone	C
Ammonium Hydroxide 50%	RC
Benzene	C
Brine Saturated H <sub>2</sub> O	R
Chlorinated H <sub>2</sub> O	R
Clorox (10%) H <sub>2</sub> O	R
Diesel Fuel	RC
Gasoline	RC
Gasoline/5% MTBE	RC
Gasoline/5% Methanol	RC
Hydrochloric Acid 20%	R
Hydrochloric Acid 10%	NR
Hydraulic Fluid (oil)	RC
Isopropyl Alcohol	R
Lactic Acid	RC
MEK	RC
Methanol	R
Methylene Chloride	C
Mineral Spirits	RC
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H <sub>2</sub> O 10%	R
Nitric Acid 20%	NR
Phosphoric Acid 10%	R
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R
Potassium Hydroxide 20%	R, Dis
Propylene Carbonate	RC
Skydrol	C
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R, Dis
Sodium Hypochlorite 10%	R
Sodium Bicarbonate	R
Stearic Acid	R
Sugar/H <sub>2</sub> O	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	RC
Toluene	R
1,1,1-Trichloroethane	C
Trisodium Phosphate	R





# PACT-8000

Solvent Based  
Polyaspartic Polyurea, Low Odor

Vinegar/H <sub>2</sub> O 5%	R
H <sub>2</sub> O	R
H <sub>2</sub> O 14 days at 82°C	R
Xylene	RC

R = recommended/ little or no visible damage  
RC= recommended conditional/ some effect, swelling or discoloration  
C= Conditional/ Cracking-wash within one hour of spillage to avoid affects  
NR= Not recommended  
Dis= discolorative

## HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. Consult the material safety data sheet for further information.

## IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to CTM Adhesives Inc. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. CTM Adhesives Inc. assumes no legal responsibility for the results obtained in such cases. CTM Adhesives Inc. assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.





# ECT-VRM-2000

## Vapor Reduction Membrane

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### Description

**ECT-VRM-2000** is a 100% solid, two component epoxy coating, designed for controlling the moisture vapor emission rate on deteriorated or new floors. **ECT-VRM-2000** meets ASTM F3010 product requirements for vapor permeance when applied at a thickness of 18 mils. The coating will control moisture vapor emission rates up to 25 lb. /24 hr. /1000 square feet. **ECT-VRM-2000** provides excellent resistance to abrasion and chemical resistance. **ECT-VRM-2000** meets all kinds of requirements such as durability, performance as well as aesthetics. This system has been approved by the Canadian Food Inspection Agency (CFIA). It meets LEED standards.

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### Primary applications

- ✓ Aircraft hangers
- ✓ Assembly areas
- ✓ Classrooms
- ✓ Clean rooms
- ✓ Laboratories
- ✓ Areas of light manufacturing
- ✓ Mechanical rooms
- ✓ Walkways

---

### Advantages

- ✓ Contains no solvent with a very low VOC content, allowing for interior applications without harmful odors
  - ✓ Exceeds ASTM F3010 standard
  - ✓ Impermeable and seamless
  - ✓ Seamless coves can be shaped using ECTR-COVE
  - ✓ Dense surface resistant to bacteria and moisture and easy to clean
  - ✓ Excellent adhesive properties, allowing for application on a wide variety of substrates
  - ✓ May apply several layers on itself with excellent adhesion
-





# ECT-VRM-2000

## Vapor Reduction Membrane

### TECHNICAL DATA

Packaging litres / gal us			Color		
11.34 l / 3	15.9 l / 4.2	56.7 l / 15	Part A	Part B	Mixture
Recommended Thickness			Upon Request	Clear - Amber	Same as Part A
ECT-VRM-2000	18 mils / 90-100 ft² us gal		Shelf Life		
Mix Ratio by volume			12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.		
A B = 2 1					
<i>*Please note that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.</i>					
Pot life (150g)	VOC (g/litre)	Density (kg/litre)			
50 - 60 minutes 25°C	41.77	Part A	Part B	Mixture	
Solids by weight %	Recommended Thinner	Clear : 1.11-1.13	0.9 - 1.0	-	
100%	xylene	Colored : 1.11-1.15	0.9 - 1.0	-	
Substrate Temperature		10°C	20°C	30°C	
Waiting Time /Overcoatability (min / max)		16 / 48	8 / 24	6 / 24	
Curing Details	Foot traffic	30 hours	24 hours	16 hours	
	Light traffic	5 days	3 days	2 days	
	Full cure and chemical resistance	10 days	7 days	5 days	
<i>*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.</i>					

### PROPERTIES @ 23°C (73°F) 50% R.H.

Bond Resistance (psi) ASTM D4541	Permeability (%) ASTM D570			
268 (substrate ruptures)	0.3			
Hardness (Shore D) ASTM D2240	Tensile Strength (psi) ASTM D638			
85-90	5500			
Compressive Strength ASTM D695	Elongation (%) ASTM D638			
6800	6.7			
Abrasion Resistance, ASTM D4060 (CS17/1000 cycles/ 1000 g)	Viscosity @ 25 °C (cps)	Part A	Part B	Mixture
	clear	1200-1400	200 -400	700 -900
	colors	1400-1600	200 -400	1000 -1200
Vapor Permeance @ 18mils thickness ASTM E96	0.1 US perm			
MV ER/RH @ 18 mil thickness ASTM F1869	25 lb. /24 hr. /1000 square feet			





# ECT-VRM-2000

## Vapor Reduction Membrane

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### SURFACE PREPARATION

The surface to be coated must be well primed. Remove dust, laitance, grease, oils, dirt, impregnating agents, waxes, foreign matter, any previous coatings, and disintegrated substances by mechanical means such as shot-blasting (BLASTRAC) or any other approved method to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 lbs/in<sup>2</sup>) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in<sup>2</sup>).

---

### MIXING

The products must be conditioned at a temperature between 18 ° C (65 ° F) and 30 ° C (86 ° F).

#### **Pre-mixed color or clear (A)**

Mix the resin part (A) perfectly before pouring the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.

#### **Part (A) when adding color pod**

Incorporate a full colored container into the clear part (A), and then thoroughly mix until the color is uniform (**one colored container pod per part A gallon**) before pouring in the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.

---

### APPLICATION

#### **APPLICATION: ECT-VRM-2000**

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating.

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### CLEANING

Clean all application equipment with the recommended cleaner (SCT-0001). Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water.

---



# ECT-VRM-2000

## Vapor Reduction Membrane

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### RESTRICTIONS

- ✓ Do not apply at temperatures below 10 ° C / 50 ° F or above 30 ° C / 86 ° F
- ✓ The relative humidity of the surrounding work environment during the application of the coating and throughout the curing process should not exceed 85%
- ✓ Substrate temperature must be 3 °C (5.5 °F) above dew point measured
- ✓ Humidity content of substrate must be <6% when coating is applied
- ✓ Do not apply on porous surfaces where a transfer of humidity may occur during the application
- ✓ The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure).
- ✓ Protect the coating from all sources of moisture for a period of 48 hours
- ✓ Surface may discolor in areas exposed to regular ultraviolet light
- ✓ ECT-VRM-2000 is not a replacement for waterproofing membranes

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### HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. Consult the material safety data sheet for further information.

---

### IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to CTM Adhesives Inc. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. CTM Adhesives Inc. assumes no legal responsibility for the results obtained in such cases. CTM Adhesives Inc. assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.

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# ECTR

## Epoxy Coating System Self-Leveling 100% Solid. VOC compliant

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### Description

**ECTR** is a 100% solid, two component epoxy coating. Monochrome color with opaque and glossy finish, seamless, and a high covering power, it can be used to restore deteriorated floors or protect new floors.

**ECTR** provides excellent resistance to abrasion and chemical resistance. **ECTR** meets all kinds of requirements such as durability, performance as well as aesthetics. Seamless plinths are optional with ECTR COVE. This seamless coating from Xtreme Polishing Systems offers an unlimited choice of color, and a smooth or non-slip finish can be achieved using very fine to very aggressive aggregates. This system has been approved by the Canadian Food Inspection Agency (CFIA). It meets LEED standards.

---

### Primary applications

- ✓ Aircraft hangers
- ✓ Assembly areas
- ✓ Classrooms
- ✓ Clean rooms
- ✓ Laboratories
- ✓ Areas of light manufacturing
- ✓ Mechanical rooms
- ✓ Walkways

---

### Advantages

- ✓ Contains no solvent with a very low VOC content, allowing for interior applications without harmful odors
  - ✓ Impermeable and seamless
  - ✓ Seamless coves can be shaped using ECTR-COVE
  - ✓ Dense surface resistant to bacteria and moisture and easy to clean
  - ✓ Excellent adhesive properties, allowing for application on a wide variety of substrates
  - ✓ May apply several layers on itself with excellent adhesion
-





# ECTR

## Epoxy Coating System Self-Leveling 100% Solid. VOC compliant

### TECHNICAL DATA

Packaging litres / gal us			Color		
11.341 / 3	15.91 / 4.2	56.71 / 15	Part A	Part B	Mixture
Recommended Thickness			Upon Request	Clear - Amber	Same as Part A
Primer : ECTR	8 mils / 200 ft² us gal		Shelf Life		
Finish Coat : ECTR	16 mils / 100 ft² us gal		12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards		
Mix Ratio by volume					
A B = 2 1					
<i>*Please note that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage</i>					
ECTR complies with the following LEED requirements IEQ Credit 4.2: Low emitting materials; Paints and coating SCAQMD Method 304-91 VOC content < 110 g / L					
Pot life (150g)	VOC (g/litre)	Density (kg/litre)			
50 - 60 minutes 25°C	41.77	Part A	Part B	Mixture	
Solids by weight %	Recommended Thinner	Clear : 1.11-1.13	0.9 – 1.0	-	
100%	xylene	Colored : 1.11-1.15	0.9 – 1.0	-	
Substrate Temperature		10°C	20°C	30°C	
Waiting Time /Overcoatability (min / max)		16 / 48	8 / 24	6 / 24	
Curing Details	Foot traffic	30 hours	24 hours	16 hours	
	Light traffic	5 days	3 days	2 days	
	Full cure and chemical resistance	10 days	7 days	5 days	
<i>*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.</i>					

### PROPERTIES @ 23°C (73°F) 50% R.H.

Bond Resistance (psi) ASTM D4541	Permeability (%) ASTM D570			
268 (substrate ruptures)	0.3			
Hardness (Shore D) ASTM D2240	Tensile Strength (psi) ASTM D638			
85-90	5500			
Compressive Strength ASTM D695	Elongation (%) ASTM D638			
6800	6.7			
Abrasion Resistance, ASTM D4060 (CS17/1000 cycles/ 1000 g)	Viscosity @ 25 °C (cps)	Part A	Part B	Mixture
0.10 gram	clear	1200-1400	200 -400	700 -900





# ECTR

## Epoxy Coating System Self-Leveling

### 100% Solid. VOC compliant

	colors	1400-1600	200 -400	1000 -1200
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### SURFACE PREPARATION

The surface to be coated must be well primed. Remove dust, laitance, grease, oils, dirt, impregnating agents, waxes, foreign matter, any previous coatings, and disintegrated substances by mechanical means such as shot-blasting (BLASTRAC) or any other approved method to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 lbs/in<sup>2</sup>) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in<sup>2</sup>).

### MIXING

The products must be conditioned at a temperature between 18 ° C (65 ° F) and 30 ° C (86 ° F).

#### **Pre-mixed color or clear (A)**

Mix the resin part (A) perfectly before pouring the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.

#### **Part (A) when adding color pod**

Incorporate a full colored container into the clear part (A), and then thoroughly mix until the color is uniform (**one colored container pod per part A gallon**) before pouring in the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.

### APPLICATION

#### APPLICATION : 1st coat of ECTR

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating.

#### APPLICATION : 2nd coat of ECTR

Apply the finish coat using a rubber squeegee and pass a roller to obtain a uniform coating.

### CLEANING

Clean all application equipment with the recommended cleaner (SCT-0001). Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water.



**ECTR**

## Epoxy Coating System Self-Leveling 100% Solid. VOC compliant

---

### RESTRICTIONS

- ✓ Do not apply at temperatures below 10 ° C / 50 ° F or above 30 ° C / 86 ° F
- ✓ The relative humidity of the surrounding work environment during the application of the coating and throughout the curing process should not exceed 85%
- ✓ Substrate temperature must be 3 ° C (5.5 ° F) above dew point measured
- ✓ Humidity content of substrate must be <4% when coating is applied
- ✓ Do not apply on porous surfaces where a transfer of humidity may occur during the application
- ✓ The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure).
- ✓ Protect the coating from all sources of moisture for a period of 48 hours
- ✓ Surface may discolor in areas exposed to regular ultraviolet light

---

### HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. Consult the material safety data sheet for further information.

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### IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to Xtreme Polishing Systems. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. Xtreme Polishing Systems assumes no legal responsibility for the results obtained in such cases. Xtreme Polishing Systems assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.









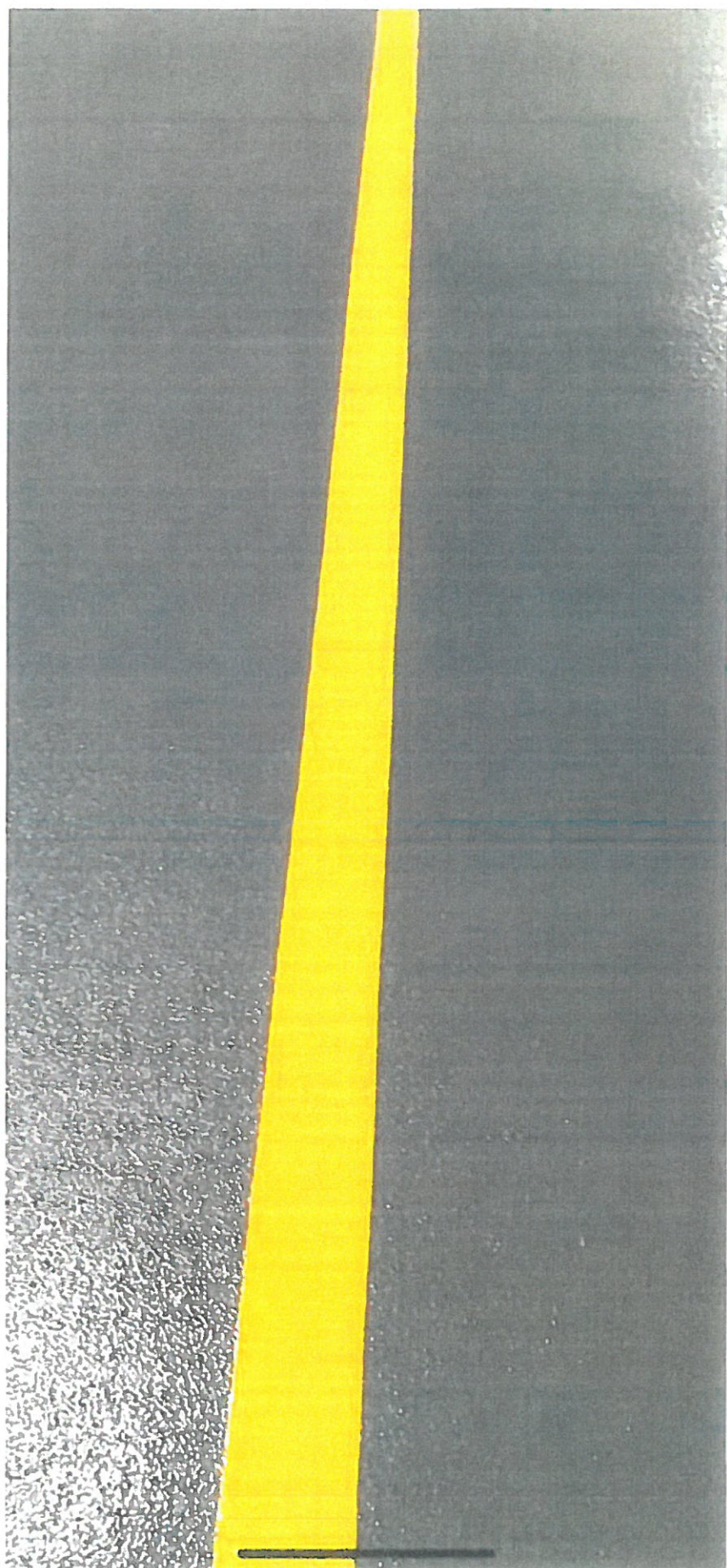




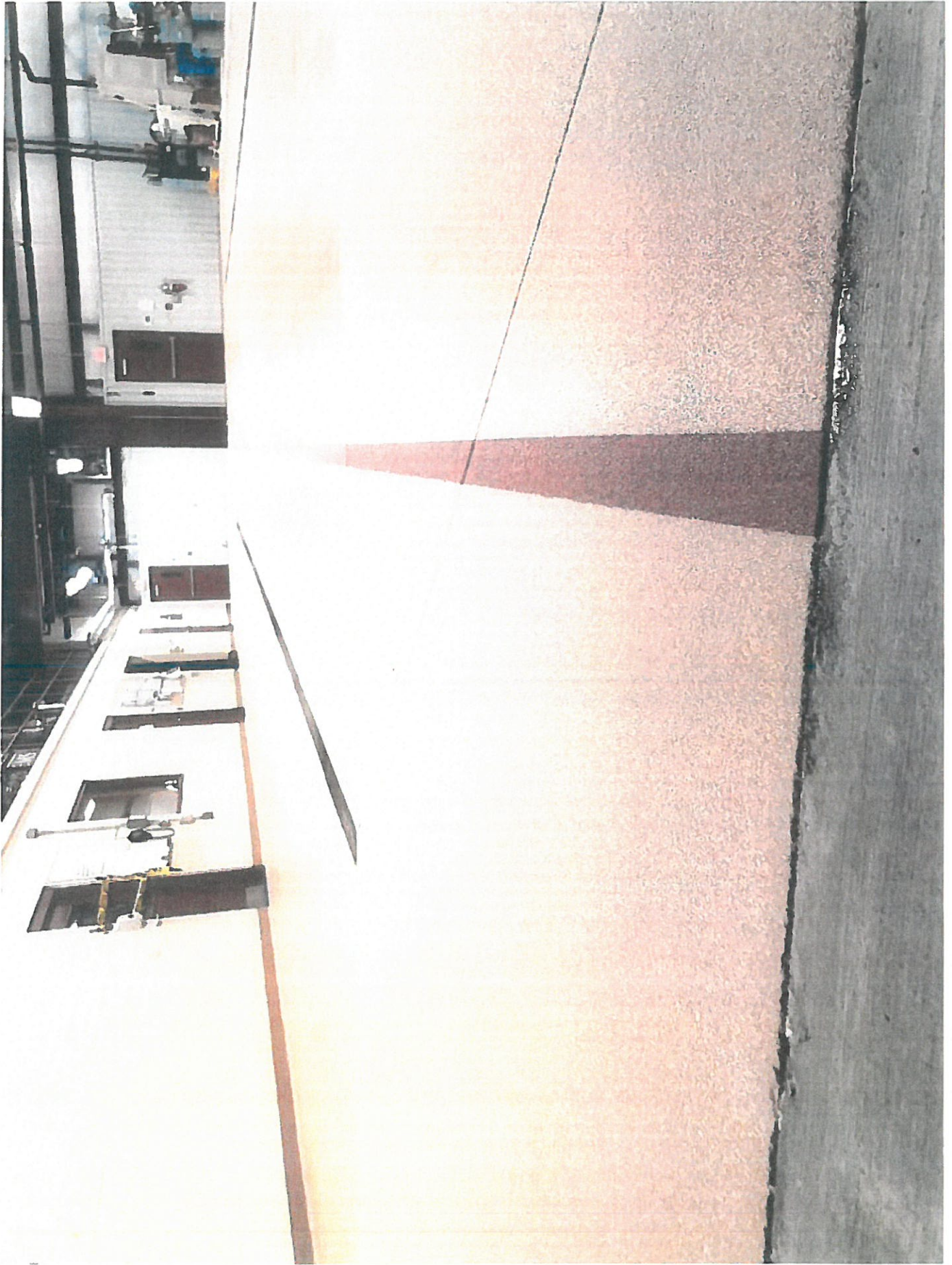


















Date: 10/20/20





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## Rescue Equipment for the Technical Rope Rescue Professional

5% Discount on orders over \$100

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Clearance - 15% OFF

New Products

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SLING-LINK

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Belts

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Confined Space Rescue

Search Cameras

Confined Space

Communications

Extractor Confined Space

Rescue Kits

Remote Retrieval Hook

Rescue Ventilation

Supplied Air / Rescue Carts

D2 Escape Kit

Descenders, Belay Devices

Disaster Management

Edge Protection

EMS

Escape Kits / RIT Ropes

Fall Protection

Fire Rescue

Fire Training Simulation

Gloves

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Helmets

Ice Rescue

Incident Command

Kits

Knives &amp; Tools

Lights

Pads

Promotional

Pulleys

Rigging Hardware

Rope

Rope Access

Rope Accessories

Rope Rescue

Rope, Cords

Rope, Industrial Lifeline

Slings / Lanyards

Stretchers

Supplied Air

Tactical Rescue Equipment

Training Manikins, etc.

Trauma Kits

[Rescue Equipment at RescueTECH1.com](#) > [Confined Space Rescue](#) > [Search Cameras](#) > SearchCAM 3000

### SearchCAM 3000

Price: \$16,600.00

Item Number: 21709930001

Quantity: [Add to Cart](#)[Add to a new shopping list](#)[Email this page to a friend](#)

#### The new standard for Technical Search and Rescue Cameras

Lightweight and portable, the SearchCam 3000 is constructed using aircraft aluminum with a hard anodized finish. The interchangeable tube sets connect using threaded couplers - enlarged to ensure ease of use while wearing gloves. The unit features significant improvements over the SearchCam2000. Record video, voice, and still images. Detachable head is waterproof and can be lowered into dusty, harsh, and wet void spaces. Articulating camera head is power driven with high precision, clutch protected motor with steel gears and ball bearings.

- Kit Includes:
- Power Module
- Standard Tube Set
- Gearbox/Audio module
- Environmental Sleeve for Audio Module
- Color Camera
- Video Display Unit VDU
- Headset
- 4GB SDHC Card
- Waterproof Storage Case
- 75' Camera Extension Cable
- 70' Rope w/ Carabiner
- Camera Head Rope Coupler
- Lithium ION Batteries (4)
- Gang Charger Sun Shield
- Tube Strap
- VOID Orientation Guide

Model#	Description
2170993000	Probe w/ Audio

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- Badges & Insignia
- Bags, Packs & Pouches
- BlackHawk
- Communications
- Defense & Control Gear
- Drug & Alcohol Control
- EMS Response
- Entry / Tools / Knives
- Fingerprinting
- Fire Fighting
- Fitness & Gym Gear
- Flashlights & Lighting
- Forensic / Investigation
- Gloves
- Helmets
- Handcuffs / Restraints
- Optics & Imaging
- Outdoor Tactical Gear
- Personal Protection
- Riot Control Gear
- Search & Rescue
- Surveillance & Detection
- Training Equipment
- Uniforms & Duty Gear
- Shipping Information
- Clearance Section

Home > Search & Rescue > Disaster Management > Life Detection Equipment > SearchCAM 3000

SearchCAM 3000






Item# RT-21709930001

Regular price: \$18,992.50

Sale price: \$17,799.00

Order Quantity: 1

ADD TO CART



SearchCAM 3000 is the standard for Technical Search and Rescue Cameras. Lightweight and portable, the Search Cam 3000 is constructed using aircraft aluminum with a hard anodized finish. The interchangeable tube sets connect using threaded couplers - enlarged to ensure ease of use while wearing gloves. The unit features significant improvements over the SearchCam2000. Record video, voice, and still images. Detachable head is waterproof and can be lowered into dusty, harsh, and wet void spaces. Articulating camera head is power driven with high precision, clutch protected motor with steel gears and ball bearings.

The SearchCam 3000 locates victims trapped in collapsed buildings. The articulating waterproof camera head with LED lighting pinpoints the victims' location so that rescuers can extract them. The SearchCam's on-screen graphics direct the rescue team to where and how to begin extraction. The two-way audio allows rescuers to communicate with the victim. Rescuers can record video and voice, as well as take still photos of the search.

Kit Includes:

- Power Module
- Standard Tube Set
- Gearbox/Audio module
- Environmental Sleeve for Audio Module
- Color Camera/Video Display Unit VDU
- Headset
- 4GB SDHC Card
- Waterproof Storage Case
- 75' Camera Extension Cable
- 70' Rope w/ Carabiner
- Camera Head Rope Coupler
- Lithium ION Batteries (4)
- Gang Charger Sun Shield
- Tube Strap
- VOID Orientation Guide

Features:

- Quick-Disconnect Cameras – switch from color to Infrared
- Records Video, Voice & Still Images
- 240° Articulating Camera Head
- Waterproof Camera – up to 75 feet(23 meters)
- Expandable Tube Sets – Camera extends from 14 inches to 19 feet (36 centimeter to 6 meters)

Accessories:

- Remote Display
- Video Display Extension Cable
- Environmental Sleeve
- IR Camera Head
- Upgrade to Kit 2
- CABLEPROBE, Color Camera, Audio
- 3 -Position Battery Charger - 6010-05-001
- Lithium ION Rechargeable Battery Stick - 6010-05-000
- Lithium ION Battery Stick Charger - 6010-05-002
- Lithium ION Charger Power Supply - CHAR-LI-SB1

Specifications:

Camera	Colour, 1/4" CCD, 0.4 Lux, 350 lines, auto iris
Interchangeable Camera Heads	Yes
Probe Articulation	Pistol Grip Controls
Illumination	16 element white LED array with multiple levels
Display Monitor	5" diagonal, flat screen LCD active matrix



Please find the attached quotes for the insulation repair/replacement for station 25. Out of the 3 quotes we felt it is best to go with the one from Kelly Insulation as they are the only one that offer a lifetime warranty. They are also the only of the 3 contractors that do not require us to be out of the building for multiple days. Insulation masters requires us to be out of the building for 3-5 days and will also require us to replace the floating ceiling. A-best insulation would require 5-7 days of us to be out of the building and again they have a separate charge to seal in the elevator shaft. Kelly insulation will only require the building to be non occupied for around 3-4 hours while they spray a chemical to kill any mold and treat the wooden beams.

Scope of work that is to be done.

Remove current insulation

Frame in and seal the top of the elevator shaft (Water and Outside air comes in via this)

Treat all wooden beams with a Anti Mold chemical.

Replace insulation with a spray foam on the backside of the roofing deck.

Side work that is not part of the insulation installation is to have Rex Air fix and replace duct work as needed, they have been our A/C service contractor, lastly is to replace the current light fixtures to LEDS in the upstairs.

Insulation Master: \$9820.00

Kelly Insulation: \$10899.00 (lifetime warranty)

A-Best Insulation: \$10348.00



**PROPOSAL - CONTRACT**

Page 1 of 1.

Ph: (305) 233-1818

Ph: (954)-456-3688

Fax:(305)233-9420

**A BEST INSULATION INC.**

14055 SW 143rd. Ct, STE 20, Miami, Florida, 33186

[info@abinsulation.com](mailto:info@abinsulation.com)

CC#: 00-9680-I-X

CC#: U20455

CC#: 01B500516

CC#: SP3452

**Date: 10/07/2020****To: Key Largo Fire Department Station #25****Job Name: SPF Insulation****Address: 220 Reef Dr,****Job Address: 220 Reef Dr,****Key Largo, FL 33037****Key Largo, FL 33037****Ph: 305 453 0025 Contact: Jason****Email: [Jmumper@keylargofire.org](mailto:Jmumper@keylargofire.org)****Job Description - Material****1) Remove existing insulation from attic space (vacuum, disposal & sanitation included)****Area:** 2,372 SF**Price:** **\$2,964.00****2) Spray-applied Polyurethane Foam Insulation underneath roof deck over conditioned space****Area:** 2,372 SF**Type:** Open Cell**Name:** Classic Plus™**R-Value:** R-30**Nominal Thickness:** 8.2"**Method:** Non vented attic**Price:** **\$7,384.00****Total Price:** **\$10,348.00**

- Notes:**
1. Permit processing cost and fees are not included in price
  2. No one will be able to stay in the house during foam application.  
Person and pets will be able to return to the house when the ventilation has reduced any odor to acceptable levels, generally this happens in less than 24 hrs. after the foam is finished,
  3. The price includes labor and materials, also the initial preparation and, cleaning of the work area

**Payment to be made as follows:****Deposit \$ 5,174.00 upon approval, Balance \$ 5,174.00 upon completion**\_\_\_\_\_  
Owner or owner agent signature.\_\_\_\_\_  
Driver license\_\_\_\_\_  
Date of acceptance*Aldo Acosta* (President)

Note: This proposal may be withdrawn by us if

Authorize signature by A Best Insulation Inc

not accepted within 45 days.



**Insulation Masters INC.**  
 13991 SW 144 Ave #305  
 Miami, FL 33186  
 1800-880-1907  
 sales@insulationmasters.com  
 www.insulationmasters.com

## Estimate

### ADDRESS

Curtis Tucker  
 Key Largo Fire Department  
 220 Reef Drive  
 Key Largo, Florida 33037

ESTIMATE #	DATE	EXPIRATION DATE
	08/12/2020	08/31/2020

### INSULATION TYPE

Open Cell

### R-VALUE

R-30

DATE	ACTIVITY	DESCRIPTION	QTY	AMOUNT
08/12/2020	<b>Existing Insulation Removal</b>	Remove multiple drop ceiling panels to make access to remove all existing fiber insulation. Sanitize all wood trusts in attic.	2,940	2,940.00
08/12/2020	<b>BASF Enerlite G Open Cell</b>	Spray 5 to 6 inches of open cell foam to roof decking / close off all soffits with foam.  Insulate with Enerlite G Open cell with fire retardants  ENERTITE G is a two-component low-density open-cell spray polyurethane foam system designed for use in residential construction and common commercial insulation applications.	3,440	6,880.00

INSULATION MASTERS  
 MASTERS OF QUALITY INSULATION

TOTAL

**\$9,820.00**

Accepted By

Accepted Date





Kelly Insulation, Inc.  
Kellyinsulation@aol.com  
5340 West State Road 84 #9  
Davie, FL 33314

## Proposal

Date	Proposal #
9/22/2020	10-E5378

<b>Customer:</b>
Key Largo Fire Dept. sta25 220 Reef Dr. Key Largo, Flroida 714-214-1723

<b>Ship To:</b>
Key Largo Fire Dept. sta25 220 Reef Dr. Key Largo, Flroida 714-214-1723

Terms	Rep	DOP	Contact
cod	Lenny	N/A	Jason

Description	Proposed Amount
R-30 open cell foam to underside of roof deck of living area. Remove and dispose of existing attic insulation over living area.	9,646.00
Antimicrobial spray in attic and inner duct area.	1,253.00

All material is guaranteed to be as specified. All work to be completed in a substantial workmanlike manner according to specifications submitted. Any alterations or deviations from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the proposal. All agreements contingent upon strikes, accidents, or delays beyond our control. Owner to carry fire, hurricane, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance. NOTE: This proposal may be withdrawn if not accepted within 30 days.

Acceptance Of Proposal: The above prices, specifications, and conditions are satisfactory and are hereby accepted. Kelly Insulation, Inc. is authorized to do the work as specified. Payment will be made as outlined above.

ALL CREDIT CARD PAYMENTS WILL BE SUBJECT TO 2.5% CONVENIENCE FEE.

Authorized Signature:

Date:

Sales Representative for Kelly  
Insulation, Inc.

**KEY LARGO FIRE RESCUE AND  
EMERGENCY MEDICAL SERVICES DISTRICT**

**Contract for Legal Services**

This Contract entered into this **18th** day of **November 2020**, between **DIRK M. SMITS, ESQUIRE**, Individually, and on behalf of **VERNIS & BOWLING OF THE FLORIDA KEYS, P.A.**, a law firm operating under the laws of the State of Florida, whose principal place of business is located at 81990 Overseas Hwy., 3<sup>rd</sup> Floor, Islamorada, FL 33036 (herein called "The Firm"), and the **KEY LARGO FIRE RESCUE AND EMERGENCY MEDICAL SERVICES DISTRICT** (herein called "The District").

In consideration of the mutual covenants and benefits hereinafter set forth, the parties herein covenant and agree as follows:

**1. TERM**

The District will exercise ONE (1) of THREE (3) renewal options in accordance with the terms of the original contract dated November 18, 2019. The term of this Contract shall remain in force for the period of ONE (1) year, beginning **November 18, 2020** to **November 18, 2021** after which, an additional TWO (2) one year options are available with the mutual consent of both parties. Section three (3) may be renegotiated after ONE (1) year and is subject to budget review.

**2. THE FIRM'S SERVICES**

The Firm agrees to provide the following services:

- A. Furnish to The District legal services, providing The District with legal advice and opinions, representation of The District and District personnel in legal matters concerning The District, making recommendation to The District Board regarding legal issues and performing all other legal services The District may require;
- B. Maintain accessibility and availability to all District members and the director and executive staff on an "on call" basis;
- C. Attendance at all District meetings, special meetings, budget meetings and any other public meetings as necessary for conducting The District's business or as required by law. These meetings will be attended by Dirk M. Smits, Esquire or other members of The Firm may be requested or approved by the District;
- D. The Firm will be responsible for paying the salaries, wages, health insurance and other benefits of its employees and representatives; and,
- E. Additionally, The Firm will furnish The District with clerk services, when required, to be charged to The District the Firm's paralegal rate.



### 3. **LEGAL & RETAINER SERVICES**

The Firm's hourly rate for non-retainer services shall be **\$170.00** per hour for attorneys with five (5) plus years of experience, **\$160.00** for attorneys with less than five (5) years experience. Paralegals shall be paid at **\$110.00** per hour. These hourly charges are to be made without regard to any overtime charges that must be paid by The Firm to its employees. The Firm will provide billing statements to The District on a monthly basis. No payment shall be due until The District verifies that all services for which payment has been requested have been fully and satisfactorily performed.

The District shall pay The Firm a **monthly retainer of \$1,600.00, plus travel**. Retainer services include unlimited phone calls with Board Members, attendance at Special meeting, regular meetings, workshops, emergency meetings, budget meeting, audit meetings and any other meeting of the Board. The retainer amount shall include multiple attorneys at meetings when necessary.

### 4. **COMPLIANCE WITH LAWS AND POLICIES**

- A. The Firm shall comply with all current District policies, Florida Bar Rules, and all applicable local, state and federal laws, including laws pertaining to confidentiality; and,
- B. The firm currently handles several matters for The District and it is anticipated that a future need for The Firm's services will be required. Therefore, pursuant to Florida Statute § 112.313(16) entitled *Local Government Attorneys*, this is a specific provision of this Agreement authorizing the use of The Firm to complete legal services for The District as it has been in the past in addition to services pursuant to this contract.

### 5. **TERMINATION**

Both parties reserve the right to terminate this contract at any time and for any reason, upon giving sixty (60) day notice to the other party during which time services will be maintained.

### 6. **ASSIGNMENT**

Neither The Firm nor The District may assign or transfer any interest in this Agreement without the prior written consent of both parties.

### 7. **AMENDMENT**

This Agreement may be amended only with the mutual consent of the parties. All amendments must be in writing and must be approved by The District.

## **8. INDEMNIFICATION, GOVERNING LAW AND VENUE**

The Firm shall indemnify and hold harmless The District from and against any and all claims, liabilities, damages, and expenses, including, without limitation, reasonable attorneys' fees, incurred by The District in defending or compromising actions brought against it arising out of or related to the acts or omissions of The Firm, its agents, employees or officers in the provision of services or performance of duties by The Firm pursuant to this Agreement.

This Agreement shall be construed in accordance with the laws of the State of Florida. Any dispute arising hereunder is subject to the laws of Florida, venue being in Monroe County, Florida. The prevailing party shall be entitled to reasonable attorney's fees and costs incurred as a result of any action or proceeding under this Agreement.

## **9. REPRESENTATIONS AND WARRANTIES**

The Firm represents and warrants to The District, upon execution and throughout the term of this Agreement that;

- 1) The Firm is not bound by any agreement or arrangement which would preclude it from entering into, or from fully performing the services required under the Agreement;
- 2) None of The Firm's agents, employees or officers has ever had his or her professional license or certification in the State of Florida, or any other jurisdiction, denied, suspended, revoked, terminated and/or voluntarily relinquished under threat of disciplinary action, or restricted in any way; and,
- 3) The Firm and The Firm's agents, employees and officers have, and shall maintain throughout the term of this Agreement, all appropriate federal and state licenses and certifications which are required in order for The Firm to perform the functions, assigned to him or her in connection with the provisions of the Agreement.

## **10. CONFIDENTIALITY**

The Firm recognizes and acknowledges that by virtue of entering into this Agreement and providing services hereunder, The Firm, its agents, employees and officers may have access to certain confidential information. The Firm agrees that neither it nor any of The Firm's agents, employees or officers will at any time, either during or subsequent to the term of this Agreement, disclose to any third party, except where permitted or required by law or where such disclosure is expressly approved by The District in writing, any confidential information, personal health information or other confidential information, and The Firm, its agents, employees and officers shall comply with all Federal and State laws and regulation and all The District policies regarding the confidentiality of such information.



## 11. INSURANCE

The Firm agrees to secure and maintain at all times during the term of this Agreement, at The Firm's expense, professional liability insurance covering The Firm for all acts or omissions which may give rise to liability for services under this Agreement. All of The Firm's staff is to be insured in minimum amounts acceptable to The District and with a reputable and financially viable insurance carrier. Such insurance shall not be cancelled except upon thirty (30) days written notice to The District. The Firm shall provide The District with a certificate evidencing such insurance coverage within five (5) days after obtaining such coverage. The Firm agrees to notify The District immediately of any material change in any insurance policy required to be maintained by The Firm.

12. This agreement supersedes all prior agreements of the parties.

IN WITNESS WHEREOF, the parties have executed this Contract on this \_\_\_\_ day of \_\_\_\_\_, 2020.

KEY LARGO FIRE RESCUE AND EMERGENCY MEDICAL SERVICES

By: \_\_\_\_\_

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

\_\_\_\_\_  
Dirk M. Smits, B.C.S., Individually and on behalf of  
Vernis & Bowling of the Florida Keys

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title



## KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Bob Thomas; Seat 4: George Mirabella; Seat 5: Danny Powers

### KLFR&EMS 2021 MEETING SCHEDULE

<u>MEETING DATE</u>	<u>AGENDA ITEMS DUE</u>
January 11, 2021 District Meeting (if required)	January 01, 2021
January 25, 2021 District Meeting	January 15, 2021
February 08, 2021 District Meeting (if required)	January 29, 2021
February 08, 2021 Strategic Planning Workshop	January 29, 2021
February 22, 2021 District Meeting	February 12, 2021
March 08, 2021 District Meeting (if required)	February 26, 2021
March 22, 2021 District Meeting	March 12, 2021
April 12, 2021 District Meeting (if required)	April 02, 2021
April 26, 2021 District Meeting	April 16, 2021
May 10, 2021 District Meeting (if required)	April 30, 2021
May 24, 2021 Strategic Planning Workshop	May 14, 2021
May 24, 2021 District Meeting	May 14, 2021
June 14, 2021 District Meeting (if required)	June 04, 2021
June 28, 2021 KLVAC Budget Workshop	June 18, 2021
June 28, 2021 District Meeting	June 18, 2021
July 12, 2021 District Meeting (if required)	July 02, 2021
July 26, 2021 KLVFD Budget Workshop	July 16, 2021
July 26, 2021 District Meeting	July 16, 2021
August 9, 2021 District Budget Workshop (if required)	July 30, 2021
August 9, 2021 District Meeting (if required)	July 30, 2021
August 23, 2021 District Budget Workshop	August 13, 2021
August 23, 2021 District Meeting	August 13, 2021
September 13, 2021 1st Public Hearing*	September 03, 2021
September 13, 2021 District Meeting*	September 03, 2021
September 20, 2021 Final Public Hearing*	September 10, 2021
September 20, 2021 District Meeting*	September 10, 2021
* Need to confirm County/School Board 1 <sup>st</sup> Public Hearings	





## KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

Seat 1: *Tony Allen*; Seat 2: *Frank Conklin*; Seat 3: *Bob Thomas*; Seat 4: *George Mirabella*; Seat 5: *Danny Powers*

October 11, 2020 District Meeting (Columbus Day)

**OR** October 18, 2020 District Meeting

October 01, 2021

October 08, 2021

October 25, 2021 District Meeting

October 15, 2021

November 08, 2021 District Meeting (if required)

October 29, 2021

November 22, 2021 Strategic Planning Workshop

November 12, 2021

November 22, 2021 District Meeting

November 12, 2021

December 13, 2021 District Meeting (if required)

December 03, 2021

December 27, 2021 District Meeting

December 17, 2021

# KEY LARGO FIRE RESCUE AND EMERGENCY MEDICAL SERVICES DISTRICT



## FY20/21 Adopted Budget

The KLFR&EMS District Mission is to provide **exceptional**  
fire protection and emergency medical services  
**efficiently and cost-effectively**  
without compromising the health or safety of residents or personnel.

KLFR&EMS District, P. O. Box 371023, Key Largo, FL 33037-1023



# KEY LARGO FIRE RESCUE AND EMS DISTRICT

## FY 2020-2021 ADOPTED BUDGET

### REVENUES

<i>Prior Year Millage Rate:</i>	1.0000
<i>Roll- Back Rate:</i>	0.9588
<i>Taxable Value</i>	3,804,409,635
<i>Millage Rate :</i>	<b>1.0000</b>
<i>% over roll-back rate</i>	4.30%

<b>Ad Valorem Taxes (97% collection rate)</b>	\$ 3,690,277
<b>Intergovernmental Revenue - Monroe County - Contribution for Capital Infrastructure</b> ((\$150,000 for capital outlay)	150,000
<b>SAFER Grant - 5 Personnel Year #2 &amp; #3 (2/13/19 start)</b> (3 year term 75% funding provided year 1 & 2, 35% funding year 3)	123,652
<b>Interest Income</b>	12,000

<b>Total Revenues</b>	<b>\$ 3,975,929</b>
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<b>UNASSIGNED FUND BALANCE OCT 1, 2020</b>	2,502,436
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<b>COMMITTED FUND BALANCE TRAUMA DISTRICT OCT 1, 2020</b> ((\$231,226 EMS)	231,226
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<b>COMMITTED FOR VEH REPL FUND BALANCE OCT 1, 2020</b>	525,114
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<b>TOTAL REVENUES, FUND BALANCES</b>	<b>\$ 7,234,705</b>
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### AND OTHER FINANCING SOURCES

### EXPENDITURES

#### Key Largo Fire/EMS District Board

Operating Expenditures	\$ 348,560
Reserve Transfers	225,000
<b>Subtotal District Board</b>	<b>\$ 573,560</b>

#### Key Largo Fire & Rescue

Operating Expenditures	\$ 2,116,577
Capital Outlay	365,718
<b>Subtotal Key Largo Volunteer Fire Department</b>	<b>\$ 2,482,295</b>

#### Key Largo Ambulance

Operating Expenditures	\$ 840,957
Capital Outlay	251,075
<b>Subtotal Key Largo Volunteer Ambulance Corp.</b>	<b>\$ 1,092,032</b>

<b>Total Expenditures &amp; Transfers</b>	<b>\$ 4,147,887</b>
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### FUND BALANCE

<b>UNASSIGNED FUND BALANCE SEPT 30, 2021</b>	2,725,478
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<b>COMMITTED FUND BALANCE TRAUMA DISTRICT SEPT 30, 2021</b>	6,226
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<b>COMMITTED FOR VEH REPL FUND BALANCE SEPT 30, 2021</b>	580,114
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<b>TOTAL EXPENDITURES &amp; FUND BALANCES</b>	<b>\$ 7,234,705</b>
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**KEY LARGO FIRE RESCUE AND EMS DISTRICT  
FY 2020-2021  
BUDGET DETAILS - DISTRICT**

**Department: 1100 District Board**  
**Exp Transaction Code 511 (except as indicated below)**

<b>Acct #</b>	<b>Computation / Explanation</b>	<b>FY 20-21 Adopted Budget</b>
110	Board Member Stipends	
	5 Members @ \$ 350 / month x 12 months	21,000
210	FICA Taxes: @ 7.65 % of Wages	1,607
511.240	Worker's Compensation	752
514.310	Legal Services	45,000
512.311	District Clerk Services	19,000
513.320	Accounting and Financial Services	
.01	District Audit	10,000
.02	Financial and Accounting Services	60,000
	<i>Total Accounting &amp; Financial Services</i>	70,000
400	Travel & Per Diem - Training, Seminars, Meetings	4,000
450	Insurance & Risk Management:	
	Public Position Bond	100
	General & Mgt Liability, Commercial Auto and Excess Liability	2,133
	<i>Total Risk Management</i>	2,233
470	Printing and Binding	3,000
490	General Departmental: Miscellaneous Expenses	
.01	MoCo Property Appraiser Charges	61,960
.02	MoCo Tax Collector Charge (@3% of Ad Valorem Collection)	110,708
.03	Discretionary Expenditures	1,000
	<i>Total General Departmental</i>	173,668
411	Advertising	5,500
510	Office Supplies & Equipment	500
540	Dues, Subscriptions and Publications	2,300
	<b>Department Total Operations</b>	<b>\$ 348,560</b>
919	Transfer to Committed Funds for Vehicle & Equipment Replacement	225,000
	<b>Department Total Including Transfers to Reserves</b>	<b>\$ 573,560</b>

Total Operating Budget	348,560
Total Capital & Reserve Budget	225,000
<b>Total</b>	<b>573,560</b>



**KEY LARGO FIRE RESCUE AND EMS DISTRICT  
FY 2020-2021  
BUDGET DETAILS - FIRE DEPARTMENT**

**Department: 1250 Key Largo Volunteer Fire Department**  
**Exp Transaction Code 522 (except as indicated below)**

<b>Acct #</b>	<b>Computation / Explanation</b>	<b>FY 20-21 Adopted Budget</b>
120	Regular Salaries & Wages:	
	Administrative Stipend (\$750 per month 3- Full Time Captains, Lieutenants)	27,000
	Station Officers / Driver Engineers /Firefighter-EMT-B/P's - full-time including Step Raises, 4%	
.02	D/E Cert. pay & 20%/10% Officer pay	910,006
	<i>Total Regular Salaries &amp; Wages</i>	<b>937,006</b>
121	Volunteer Pay:	
.01	Volunteer Chief's Reimbursement - Chief has declined	-
.03	Volunteer firefighters (Station 24 and Station 25)	180,000
	<i>Total Volunteer Pay</i>	<b>180,000</b>
140	Overtime wages	199,445
210	Employer Payroll Taxes @ 7.65% of Pay	97,540
220	Retirement Plan - 401(k)	45,000
230	Employee Insurance Benefits	
	Medical/Dental/Vision/Life Insurance for Full Time Employees (up to \$575 per mo. each FT emp.)	103,500
	Statutory AD&D	2,538
	<i>Total Insurance Benefits</i>	<b>106,038</b>
240	Worker's Compensation	47,559
250	Unemployment Tax	2,835
312	Professional Services:	
	Grant Writing Services	2,750
	Firefighter Annual Physicals	22,000
	Background Checks, Drug Testing, Drivers License Checks	1,530
	<i>Total Professional Services</i>	<b>26,280</b>
320	Accounting Fees	12,122
400	Travel & Per Diem - (Greater FL Fire School, Orlando Fire Conference, Seminars, etc.)	4,590
410	Phones, Television & Internet (Station Phones, Air Cards) approx. \$1200 per month for all	11,220
411	Advertising	510
412	Postage & Freight	510
430	Utilities	
.01	Electric	27,540
.02	Water	10,200
.03	Fire Hydrant Maintenance @ \$ 50 per hydrant - Hydrant's increased to 275 total in KL	14,025
.04	Propane Gas	750
.07	TV Service	4,794
	<i>Total Utilities</i>	<b>57,309</b>
440	Rent & Leases:	
	Station 24 Copier/Scanner/Fax Lease	4,500
	Oxygen Tank Rental	1,000
	Annual Lease Payment - DEP Station 25 Property	300
	Red Alert NFRIS Incident Reporting Program Support and Maintenance & SmartCop CAD	6,120
	Software - Fire Manager Scheduling and Time & Attendance Software	2,040
	<i>Total Rent &amp; Leases</i>	<b>13,960</b>
450	Risk Management	
	Package Policy (Property, General & Mgmt. Liability, Portable Equip, Umbrella & Auto)	59,821

**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FY 2020-2021**  
**BUDGET DETAILS - FIRE DEPARTMENT**

Department: 1250 Key Largo Volunteer Fire Department  
Exp Transaction Code 522 (except as indicated below)

Acct #	Computation / Explanation	FY 20-21 Adopted Budget
	Cancer Benefit Insurance (New FL Statue)	1,795
	Accident and Sickness	5,500
	Storage Tank Liability	1,750
	<i>Total Risk Management</i>	68,866
460	Repair & Maintenance: Equipment - Aerial Testing, Hose Testing, Pump Testing, Hydraulic Testing,	35,000
461	Repair & Maintenance: Buildings & Grounds (includes \$30,000 for Station 24 bay floors refinish with nonskid material)	70,000
462	Repair & Maintenance: Vehicles	55,000
470	Printing and Binding	102
490	General Departmental: General Office & Administrative Costs	
.05	Other including Recruitment & Retention	3,500
.06	Computer/IT services	6,500
	<i>Total General Departmental</i>	10,000
491	Training - Instructor Fees, Education, Student Text and Fire Prevention	
.01	In-house training courses (Outside/In-house instructors/vendors) - Pump Ops, Officer	8,500
.02	Out of area training - Orlando Fire Expo, GFFS, Intercontinental Fire Academy, Seminars,	3,500
.03	Fire Prevention (KLVFD Only) - Fire Safety Demonstrations at School	3,000
.04	Education & Text Books	2,550
.05	KAPLAN online education (60 firefighters)	4,750
	<i>Total Training</i>	22,300
510	Office Supplies & 2 New Computers for Station 24	4,200
520	Operating Supplies	
.01	Fire Ground Safety (highway vests, cones, etc.)	1,750
.02	Daily Operating/Maintenance Supplies including small tools less then 1k (hoses, nozzles,	25,000
.03	Medical Supplies & Equipment	8,000
.05	Station Cleaning/Housekeeping Supplies	5,000
.06	Firefighting Gear - (including helmets, gloves, hoods, boots, coat & pants) based on no	24,000
.07	Clothing, Apparel - Pants, extrication gloves, tee shirts, patches, etc.	9,000
.08	Fire fighting Foam or suppression agent	11,220
	<i>Total Operating Supplies</i>	83,970
521	Fuel: Gasoline (for portable equipment)	75
522	Fuel: Diesel	20,000
540	Dues, Subscriptions and Publications (email and security)	3,100
630	Capital Outlay: Infrastructure Improvements - Fire Hydrants	
	\$150,000 from Monroe County ILA	150,000
	<i>Total Capital Outlay: Infrastructure Improvements - Fire Hydrants</i>	150,000
640	Capital Outlay: Equipment	
	Toughbook Computer	5,500
	Mobile Preplan RedNMX Software for ToughBooks for In-Field Inspections	3,850
	Masimo Rad-57 Pulse Ox with CO Oximeter with SpMet for both Adult & Pediatric	4,994
	Structural Collapse Camera	14,995
	Physio Control Lifepak 1000 AD with add on for ECG Display with Pediatric capability	4,379
	<i>Total Capital Outlay: Equipment</i>	33,718



**KEY LARGO FIRE RESCUE AND EMS DISTRICT  
FY 2020-2021  
BUDGET DETAILS - FIRE DEPARTMENT**

Department: 1250 Key Largo Volunteer Fire Department  
Exp Transaction Code 522 (except as indicated below)

Acct #	Computation / Explanation	FY 20-21 Adopted Budget
641	Capital Outlay: Vehicles Remount Air Cascade System on F550 4 door chassis, and keep old air truck for utility/admin vehicle	170,000
642	Capital Outlay: Small Tools & Equipment Various Tools, Equipment, etc. Costing >\$1,000 but < \$ 5,000 per each item and a useful life of 1 year or more	12,000
805	Upper Keys Honor Guard	2,040
<i>Total Upper Keys Honor Guard</i>		<b>2,040</b>

<i>Total Operating Budget</i>	2,116,577
<i>Total Capital Budget</i>	<u>365,718</u>
<i>Total</i>	<b><u>2,482,295</u></b>

**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FY 2020-2021**  
**BUDGET DETAILS - AMBULANCE CORP**

Department: 1300 Key Largo Volunteer Ambulance Corp  
Exp Transaction Code 526 (except as indicated below)

Acct #	Computation / Explanation	FY 20-21 Adopted Budget
120	Regular Salaries & Wages:	
.01	Administrative (1 Position)	58,801
.02	Paramedic Payroll	362,376
	Less: EMS Income Applied to Offset Reimbursement -	(268,000)
	Total Paramedic Payroll Reimbursement	94,376
	Total Regular Salaries & Wages	153,177
121	Volunteer Pay: Volunteer Reimbursement - Includes \$500 per month for Deputy Chief of Administration	191,030
140	Overtime Wages	24,930
210	Employer Payroll Taxes @ 7.65% of Full Time Wages and Volunteer Pay	48,741
220	Retirement Contributions - 401K	2,500
230	Benefits for 5 full-time medics (up to \$575 per mo. each FT emp.)	34,500
240	Worker's Compensation	21,217
250	Unemployment Tax	300
312	Professional Services: Medical Director, etc.	
.02	Medical Director	18,720
.03	Background Checks, drug testing	765
.04	Other - Grant Writing	2,250
	Total Professional Services	21,735
320	Accounting and Financial Services	11,330
400	Travel & Per Diem - Training, Seminars, Meetings	4,000
410	Station Phone Services: (4 phone & 2 fax lines), DSL/Internet, Wireless Air Cards for laptops in trucks	11,200
411	Advertising	400
412	Postage & Freight	357
430	Utilities	
.05	Electric & Propane	11,730
.06	Water	3,264
	Total Utilities	14,994
440	Rental Equipment - O2 rental bottles, etc.	4,590
450	Insurance & Risk Management	
	Fire/Wind/Flood	34,085
	Auto & Umbrella	10,359
	Disability Insurance (All Members) -	3,570
	Total Insurance & Risk Management	48,014



**KEY LARGO FIRE RESCUE AND EMS DISTRICT  
FY 2020-2021  
BUDGET DETAILS - AMBULANCE CORP**

Department: 1300 Key Largo Volunteer Ambulance Corp  
Exp Transaction Code 526 (except as indicated below)

Acct #	Computation / Explanation	FY 20-21 Adopted Budget
460	Repair & Maintenance: Equipment	42,075
461	Repair & Maintenance: Buildings (includes \$20,000 for pressure washing and painting of Station 23)	40,000
462	Repair & Maintenance: Vehicles	20,000
470	Printing and Binding	1,275
490	General Departmental: Miscellaneous Expenses	
.08	Computer R&M	6,000
.10	Employee Assistance Program (program through AETNA approx. \$2 per month per member)	1,100
.12	Membership & Retention	2,500
<i>Total General Departmental</i>		9,600
491	Training - Instructor Fees, Education	
.07	ACLS/PALS (taught in alternating years)	1,530
.08	ClinCon or EMS Expo	1,795
.10	Misc. Training/Books & pig tracheas	918
.15	Handtevy Pals class	-
.20	Kaplan/FireEMS Academy online training for members (45 @ \$40)	1,800
.25	Advanced Airway Management	2,448
.30	ACS with 12-lead	2,448
.40	Advanced Stroke Life Support	2,448
.50	Florida Mass Casualty Triage on-line course	-
<i>Total Training</i>		13,387
510	Office Supplies	2,550
520	Operating Supplies	
.09	Station Supplies: Ambulance & Building	11,500
.10	Medical Supplies: Bandages/First Aid/Drip Sets	50,000
.11	Uniforms, Clothing and Apparel, Membership Supplies	5,500
.12	Small Tools:	6,500
<i>Total Operating Supplies</i>		73,500
522	Fuel: Diesel	12,500
524	Medicine & Drugs : Supplies: Medicine & Controlled Substances	18,000
	Narcan to Community	612
<i>Total Medicine &amp; Drugs</i>		18,612
540	Dues, Subscriptions and Publications	14,443

**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FY 2020-2021**  
**BUDGET DETAILS - AMBULANCE CORP**

Department: 1300 Key Largo Volunteer Ambulance Corp  
Exp Transaction Code 526 (except as indicated below)

Acct #	Computation / Explanation	FY 20-21 Adopted Budget
643	Capital Outlay: Buildings	
	Replace Station 23 office carpet with tile	7,750
	<i>Total Capital Outlay: Buildings</i>	<i>7,750</i>
640	Capital Outlay: Equipment	
	3 Toughbook computers	16,500
	Employee ID Badge Printer	1,825
	<i>Total Capital Outlay: Equipment</i>	<i>18,325</i>
641	Capital Outlay: Vehicles - 2008 Ambulance Replacement, using Trauma District Funding	225,000

**Department Total**

Total Operating Budget 840,957  
Total Capital Budget 251,075  
Total 1,092,032



**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FY 2020-2021**  
**VEHICLE REPLACEMENT SCHEDULE**

9/25/2020

Year	Beginning Balance	Contributions	Purchases & Other Distributions	Ending Balance	Vehicle to be Replaced
09/30/21	\$ 525,114	\$ 225,000	\$ (170,000)	\$ 580,114	Cascade/Air Truck Remount
09/30/22	580,114	225,000	(238,703)	566,411	ambulance (new in 2011)
09/30/23	566,411	225,000	-	791,411	
09/30/24	791,411	225,000	-	1,016,411	
09/30/25	1,016,411	250,000	(260,837)	1,005,574	ambulance (new in 2015)
09/30/26	1,005,574	250,000	(268,662)	986,912	ambulance (new in 2016)
09/30/27	986,912	250,000	-	1,236,912	
09/30/28	1,236,912	250,000	-	1,486,912	
09/30/29	1,486,912	250,000	-	1,736,912	
09/30/30	1,736,912	275,000	(357,657)	1,654,255	ambulance (new in 2020)
09/30/31	1,654,255	275,000	(311,453)	1,617,802	ambulance (new in 2021)
09/30/32	1,617,802	275,000	(742,821)	1,149,981	E25
09/30/33	1,149,981	275,000	(765,106)	659,875	E24
09/30/34	659,875	275,000	(468,354)	466,521	Tanker
09/30/35	466,521	300,000	(350,543)	415,978	ambulance (new in 2025)
09/30/36	415,978	300,000	(361,059)	354,919	ambulance (new in 2026)
09/30/37	354,919	300,000	-	654,919	
09/30/38	654,919	300,000	-	954,919	
09/30/39	954,919	300,000	(1,117,215)	137,704	Ladder

Equipment/Vehicle Type	Dept	Unit #	Year New	Service Life	Replace Year	Years to Replacement	Estimated Replacement Cost in FY21
Technical Rescue Pumper	Fire Rescue	SQUAD-24	2013	20	NA	NA	-
Tanker/Pumper	Fire Rescue	TANKER-24	2014	20	2034	13	309,637
Ladder / Pumper	Fire Rescue	LADDER-24	2014	25	2039	18	637,132
Class A Engine	Fire Rescue	ENGINE-25	2017	15	2032	11	521,000
Class A Engine	Fire Rescue	ENGINE-24	2018	15	2033	12	521,000
Cascade Air Fill & Lighting Truck	Fire Rescue	AIR-24	2002	20	2022	1	234,450
Dive Rescue Van	Fire Rescue	WATER RESCUE-25	2009	15	NA	NA	-
Type III Ambulance	EMS		2008	10	2018	-3	225,000
Type III Ambulance	EMS		2011	10	2021	0	225,000
Type III Ambulance	EMS		2015	10	2025	4	225,000
Type III Ambulance	EMS		2016	10	2026	5	225,000

**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FISCAL YEAR 19-20**  
**JULY, AUGUST, SEPTEMBER 2020 & YTD ACTUALS VERSUS BUDGET**

	Jul 20	Aug 20	Sep 20	Oct '19 - Sep 20	Budget	% of Budget
<b>Revenue</b>						
311.000 · Ad Valorem Taxes	1,513.44	1,062.10	0.00	3,487,044.46	3,478,108.00	100.26%
201.01 · SAFER Grant - personnel	0.00	0.00	0.00	91,271.70	164,869.00	55.36%
331.501 · FEMA Disaster Relief	0.00	0.00	331.43	3,066.19	0.00	100.0%
338.002 · ILA Remib Frm Monroe County	0.00	0.00	150,000.00	150,000.00	150,000.00	100.0%
361.100 · Interest	1,353.30	1,268.17	1,938.47	16,255.90	12,000.00	135.47%
<b>Total Revenue</b>	<b>2,866.74</b>	<b>2,330.27</b>	<b>152,269.90</b>	<b>3,747,638.25</b>	<b>3,804,977.00</b>	<b>98.49%</b>
<b>Expenditures</b>						
<b>1100 · District Board</b>						
511.110 · Board Member Stipends	1,000.00	1,000.00	1,000.00	12,000.00	12,000.00	100.0%
511.210 · FICA/Medicare	76.50	76.50	76.50	918.00	918.00	100.0%
511.240 · Workmens Compensation Insurance	0.00	0.00	0.00	752.00	752.00	100.0%
511.400 · Travel & Per Diem	0.00	0.00	0.00	50.00	2,700.00	1.85%
511.411 · Advertising	623.51	384.05	1,204.14	9,163.72	7,500.00	122.18%
<b>511.450 · Insurance &amp; Risk Management</b>						
450.01 · Bond	0.00	0.00	0.00	100.00	100.00	100.0%
450.02 · Portfolio Policy & Auto	0.00	0.00	0.00	1,835.70	2,133.00	86.06%
<b>Total 511.450 · Insurance &amp; Risk Management</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,935.70</b>	<b>2,233.00</b>	<b>86.69%</b>
511.470 · Printing & Binding	209.21	0.00	0.00	1,603.85	3,000.00	53.46%
<b>511.490 · General Departmental</b>						
490.01 · Tax Collector Fees	44.64	31.57	-46,581.35	54,582.02	104,343.00	52.31%
490.02 · Property Appraiser Fees	15,955.98	0.00	-14,527.03	49,296.89	56,327.00	87.52%
490.03 · Other	14.99	14.99	35.00	94.96	300.00	31.65%
<b>Total 511.490 · General Departmental</b>	<b>16,015.61</b>	<b>46.56</b>	<b>-61,073.38</b>	<b>103,973.87</b>	<b>160,970.00</b>	<b>64.59%</b>
511.510 · Office Supplies	0.00	0.00	0.00	290.00	500.00	58.0%
511.540 · Dues, Subscriptions	0.00	0.00	0.00	2,064.87	3,300.00	62.57%
512.311 · District Clerk Svcs (Prof Svcs)	2,283.75	1,586.25	1,957.50	17,111.25	19,000.00	90.06%
<b>513.320 · Accounting &amp; Financial Svcs</b>						
513.01 · District Audit	0.00	0.00	0.00	10,000.00	10,000.00	100.0%
513.02 · Financial and Accounting	3,011.20	2,187.10	2,527.05	33,270.15	60,000.00	55.45%
<b>Total 513.320 · Accounting &amp; Financial Svcs</b>	<b>3,011.20</b>	<b>2,187.10</b>	<b>2,527.05</b>	<b>43,270.15</b>	<b>70,000.00</b>	<b>61.82%</b>
514.310 · Legal Services (Prof Svcs)						



**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FISCAL YEAR 19-20**  
**JULY, AUGUST, SEPTEMBER 2020 & YTD ACTUALS VERSUS BUDGET**

	Jul 20	Aug 20	Sep 20	Oct '19 - Sep 20	Budget	% of Budget
310.01 · Non- Litigation	4,954.00	3,211.50	4,627.50	35,228.00	45,000.00	78.28%
<b>Total 1100 · District Board</b>	<b>28,173.78</b>	<b>8,491.96</b>	<b>-49,680.69</b>	<b>228,361.41</b>	<b>327,873.00</b>	<b>69.65%</b>
<b>1250 · Key Largo Volunteer Fire</b>						
522.120 · Regular Salaries & Wages						
120.04 · Firefighters	48,659.62	48,306.67	79,692.03	664,677.93	751,711.00	88.42%
120.06 · Administrative Stipend	2,250.00	2,250.00	2,250.00	24,750.00	27,000.00	91.67%
<b>Total 522.120 · Regular Salaries &amp; Wages</b>	<b>50,909.62</b>	<b>50,556.67</b>	<b>81,942.03</b>	<b>689,427.93</b>	<b>778,711.00</b>	<b>88.54%</b>
522.121 · Volunteer Pay						
121.03 · Volunteer/Line Officer Reim.	14,200.15	9,522.69	10,494.93	168,103.56	168,000.00	100.06%
<b>Total 522.121 · Volunteer Pay</b>	<b>14,200.15</b>	<b>9,522.69</b>	<b>10,494.93</b>	<b>168,103.56</b>	<b>168,000.00</b>	<b>100.06%</b>
522.140 · Overtime Wages	15,132.40	13,656.60	10,121.55	185,310.33	187,000.00	99.1%
522.210 · FICA/Medicare	7,423.02	5,649.05	7,845.71	81,297.40	86,729.00	93.74%
522.220 · Retirement Benefits	1,455.93	2,780.26	1,653.56	34,379.60	40,000.00	85.95%
522.230 · Life & Health Insurance	6,602.12	5,767.08	5,521.98	73,658.93	80,200.00	91.84%
522.240 · Workers Compensation	0.00	0.00	0.00	32,809.72	34,386.00	95.42%
522.250 · Unemployment Tax	0.00	0.00	0.00	229.36	750.00	30.58%
522.312 · Professional Services						
312.03 · Grant Writing Services	0.00	0.00	0.00	2,600.00	2,600.00	100.0%
312.04 · Annual Physicals	0.00	0.00	0.00	19,430.00	19,430.00	100.0%
312.05 · Background checks & Drug Testin	0.00	0.00	450.00	1,150.00	1,500.00	76.67%
<b>Total 522.312 · Professional Services</b>	<b>0.00</b>	<b>0.00</b>	<b>450.00</b>	<b>23,180.00</b>	<b>23,530.00</b>	<b>98.51%</b>
522.320 · Accounting & Financial Svcs	1,563.00	842.00	1,723.00	10,785.86	10,000.00	107.86%
522.400 · Travel & Per Diem	0.00	0.00	0.00	3.30	500.00	0.66%
522.410 · Phones - Station Phones, Cell	1,095.67	1,095.76	822.12	12,036.82	11,000.00	109.43%
522.411 · Advertising	0.00	0.00	0.00	0.00	0.00	0.0%
522.412 · Postage & Freight	429.04	88.53	31.73	687.98	500.00	137.6%
522.430 · Utilities						
430.01 · Electric	2,379.73	2,244.54	2,082.47	23,961.42	27,000.00	88.75%
430.02 · Water	806.16	669.35	678.76	8,861.37	10,000.00	88.61%
430.03 · Fire Hydrant Maintenance	0.00	0.00	0.00	12,500.00	13,750.00	90.91%
430.04 · Propane Gas	40.00	0.00	123.70	693.11	600.00	115.52%
430.07 · TV Service	400.41	396.16	396.16	4,658.25	4,700.00	99.11%

**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FISCAL YEAR 19-20**  
**JULY, AUGUST, SEPTEMBER 2020 & YTD ACTUALS VERSUS BUDGET**

	Jul 20	Aug 20	Sep 20	Oct '19 - Sep 20	Budget	% of Budget
<b>Total 522.430 · Utilities</b>	3,626.30	3,310.05	3,281.09	50,674.15	56,050.00	90.41%
<b>522.440 · Rent &amp; Leases</b>						
<b>440.01 · Copier/Scanner/Fax Lease</b>	867.66	352.21	352.21	4,536.32	5,000.00	90.73%
<b>440.02 · Oxygen Tank Rental</b>	23.85	0.00	0.00	225.00	505.00	44.55%
<b>440.03 · DEP Station 25 Lease Pymt</b>	300.00	0.00	0.00	300.00	300.00	100.0%
<b>440.04 · Red Alert Incident Reporting</b>	0.00	0.00	0.00	4,730.81	6,000.00	78.85%
<b>440.05 · Fire Manager- Schedule &amp; Time</b>	0.00	0.00	0.00	2,095.00	2,095.00	100.0%
<b>Total 522.440 · Rent &amp; Leases</b>	1,191.51	352.21	352.21	11,887.13	13,900.00	85.52%
<b>522.450 · Insurance &amp; Risk Management</b>						
<b>450.03 · Package Policy</b>	0.00	0.00	0.00	50,404.12	58,638.00	85.96%
<b>450.04 · Accident &amp; Sickness</b>	0.00	0.00	0.00	5,320.00	5,000.00	106.4%
<b>450.07 · Storage Tank Liability</b>	0.00	0.00	0.00	1,510.00	1,510.00	100.0%
<b>450.11 · Cancer Policy</b>	166.00	0.00	0.00	1,484.19	1,760.00	84.33%
<b>Total 522.450 · Insurance &amp; Risk Management</b>	166.00	0.00	0.00	58,718.31	66,908.00	87.76%
<b>522.46 · Repair &amp; Maintenance</b>						
<b>522.460 · Repair &amp; Maint - Equipment</b>	7,263.48	3,133.16	9,726.16	33,667.77	24,650.00	136.58%
<b>522.461 · Repair &amp; Maint - Buildings</b>	8,367.00	6,572.38	9,778.04	44,729.58	43,250.00	103.42%
<b>522.462 · Repair &amp; Maint - Vehicles</b>	1,102.73	22,391.70	6,042.60	49,046.46	45,000.00	108.99%
<b>Total 522.46 · Repair &amp; Maintenance</b>	16,733.21	32,097.24	25,546.80	127,443.81	112,900.00	112.88%
<b>522.470 · Printing &amp; Binding</b>	0.00	0.00	0.00	0.00	100.00	0.0%
<b>522.490 · General Departmental</b>						
<b>490.05 · Other</b>	0.00	0.00	0.00	4,098.80	4,099.00	100.0%
<b>490.06 · Computer/IT Services</b>	765.00	510.00	637.50	7,075.00	6,401.00	110.53%
<b>Total 522.490 · General Departmental</b>	765.00	510.00	637.50	11,173.80	10,500.00	106.42%
<b>522.491 · Training</b>						
<b>491.01 · Instructor Fees</b>	0.00	0.00	0.00	9,716.46	10,200.00	95.26%
<b>491.03 · Fire Prevention</b>	0.00	0.00	2,985.83	2,985.83	3,250.00	91.87%
<b>491.04 · Education, Student Text</b>	0.00	0.00	1,600.00	5,256.50	3,700.00	142.07%
<b>491.05 · KAPLAN online Education</b>	0.00	0.00	0.00	4,500.00	4,500.00	100.0%
<b>491.15 · Out of Area Training</b>	0.00	0.00	0.00	1,750.00	2,500.00	70.0%
<b>Total 522.491 · Training</b>	0.00	0.00	4,585.83	24,208.79	24,150.00	100.24%
<b>522.510 · Office Supplies</b>	618.29	215.82	164.78	4,938.74	4,000.00	123.47%



**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FISCAL YEAR 19-20**  
**JULY, AUGUST, SEPTEMBER 2020 & YTD ACTUALS VERSUS BUDGET**

	Jul 20	Aug 20	Sep 20	Oct '19 - Sep 20	Budget	% of Budget
<b>522.520 · Operating Supplies</b>						
520.01 · Fire Ground Safety	0.00	81.90	1,058.44	3,447.02	3,150.00	109.43%
520.02 · Daily Operating/Maint Supplies	1,171.42	931.27	125.72	30,331.74	31,000.00	97.84%
520.03 · Medical Supplies & Equipment	930.43	923.81	1,702.69	13,805.53	14,000.00	98.61%
520.05 · Stat Cleaning/Hskping Supplies	360.01	656.81	102.60	5,625.45	5,500.00	102.28%
520.06 · Firefighting Gear	0.00	584.70	3,355.67	21,102.64	19,991.00	105.56%
520.07 · Clothing & Apparel	0.00	1,049.92	1,175.65	13,759.08	13,562.00	101.45%
520.08 · Firefighting Foam or Sup Agnt	0.00	0.00	1,560.00	1,560.00	4,500.00	34.67%
<b>Total 522.520 · Operating Supplies</b>	<b>2,461.86</b>	<b>4,228.41</b>	<b>9,080.77</b>	<b>89,631.46</b>	<b>91,703.00</b>	<b>97.74%</b>
<b>522.521 · Fuel - Gasoline</b>	0.00	0.00	0.00	17.67	100.00	17.67%
<b>522.522 · Fuel - Diesel</b>	1,056.56	1,034.49	4,984.10	12,817.58	23,500.00	54.54%
<b>522.540 · Dues, Subscriptions</b>	0.00	0.00	0.00	3,050.00	3,050.00	100.0%
<b>522.6 · Capital Expenditures</b>						
522.620 · Capital Outlay - Buildings	5,050.00	14,800.00	6,000.00	33,450.00	0.00	100.0%
522.630 · Capital Outlay-Infr. Imprvmnts	0.00	149,100.00	0.00	158,200.00	150,000.00	105.47%
522.640 · Capital Outlay - Equipment	0.00	0.00	0.00	6,344.52	6,350.00	99.91%
522.642 · Capital - Small Tools & Equip	0.00	0.00	0.00	11,872.40	14,000.00	84.8%
<b>Total 522.6 · Capital Expenditures</b>	<b>5,050.00</b>	<b>163,900.00</b>	<b>6,000.00</b>	<b>209,866.92</b>	<b>170,350.00</b>	<b>123.2%</b>
<b>Total 1250 · Key Largo Volunteer Fire</b>	<b>130,479.68</b>	<b>295,606.86</b>	<b>175,239.69</b>	<b>1,916,339.15</b>	<b>1,998,517.00</b>	<b>95.89%</b>
<b>1300 · Key Largo EMS</b>						
<b>526.120 · Regular Salaries &amp; Wages</b>						
120.01 · Administrative Payroll	3,112.96	1,751.04	1,751.04	33,756.46	56,813.00	59.42%
120.02 · Paramedic Payroll	9,999.00	9,999.00	9,999.00	59,994.00	75,000.00	79.99%
<b>Total 526.120 · Regular Salaries &amp; Wages</b>	<b>13,111.96</b>	<b>11,750.04</b>	<b>11,750.04</b>	<b>93,750.46</b>	<b>131,813.00</b>	<b>71.12%</b>
<b>526.121 · Volunteer Pay</b>	17,222.75	16,700.00	17,934.00	195,424.95	192,000.00	101.78%
<b>526.140 · Overtime Wages</b>	0.00	0.00	0.00	0.00	4,600.00	0.0%
<b>526.210 · FICA/Medicare</b>	2,422.52	1,091.12	3,317.69	32,607.31	47,550.00	68.58%
<b>526.220 · Retirement Contributions</b>	0.00	0.00	187.50	1,520.00	2,500.00	60.8%
<b>526.230 · Life &amp; Health Insurance</b>	0.00	0.00	0.00	7,414.30	18,000.00	41.19%
<b>526.240 · Worker's Compensation</b>	0.00	0.00	-4,393.99	6,118.29	15,115.00	40.48%
<b>526.250 · Unemployment Tax</b>	0.00	0.00	0.00	0.00	300.00	0.0%
<b>526.312 · Professional Services</b>						

**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FISCAL YEAR 19-20**  
**JULY, AUGUST, SEPTEMBER 2020 & YTD ACTUALS VERSUS BUDGET**

	Jul 20	Aug 20	Sep 20	Oct '19 - Sep 20	Budget	% of Budget
312.02 · Medical Director	1,500.00	1,500.00	1,500.00	18,000.00	18,000.00	100.0%
312.06 · Drug Testing & Background Check	0.00	0.00	0.00	45.00	750.00	6.0%
312.07 · Grant Writing Services	0.00	0.00	0.00	0.00	2,000.00	0.0%
<b>Total 526.312 · Professional Services</b>	<b>1,500.00</b>	<b>1,500.00</b>	<b>1,500.00</b>	<b>19,545.00</b>	<b>20,750.00</b>	<b>94.19%</b>
526.320 · Accounting & Financial Svcs	766.00	0.00	2,257.00	11,301.47	11,000.00	102.74%
526.400 · Travel & Per Diem	0.00	0.00	0.00	942.20	4,000.00	23.56%
526.410 · Phones, Station & Cell	1,575.10	1,159.25	1,078.42	13,196.21	10,500.00	125.68%
526.411 · Advertising	0.00	0.00	0.00	0.00	400.00	0.0%
526.412 · Postage & Freight	0.00	0.00	0.00	0.00	350.00	0.0%
526.430 · Utilities						
430.05 · Electric & Propane	1,546.61	1,415.31	1,144.01	12,794.36	11,500.00	111.26%
430.06 · Water	142.05	136.16	130.11	2,304.88	3,200.00	72.03%
<b>Total 526.430 · Utilities</b>	<b>1,688.66</b>	<b>1,551.47</b>	<b>1,274.12</b>	<b>15,099.24</b>	<b>14,700.00</b>	<b>102.72%</b>
526.440 · Rental & Leases	377.60	755.20	755.20	4,697.19	4,500.00	104.38%
526.450 · Insurance & Risk Management						
450.08 · Package Policy	0.00	3,083.33	0.00	34,648.85	33,417.00	103.69%
450.09 · Auto	0.00	864.00	0.00	10,226.67	10,156.00	100.7%
450.10 · Disability Insurance	399.13	0.00	0.00	3,193.00	3,500.00	91.23%
<b>Total 526.450 · Insurance &amp; Risk Management</b>	<b>399.13</b>	<b>3,947.33</b>	<b>0.00</b>	<b>48,068.52</b>	<b>47,073.00</b>	<b>102.12%</b>
526.46 · Repair & Maintenance						
526.460 · Repair & Maint - Equipment	0.00	815.33	2,439.89	18,387.28	41,250.00	44.58%
526.461 · Repair & Maint - Buildings	996.00	1,084.97	571.46	8,738.67	25,000.00	34.96%
526.462 · Repair & Maint - Vehicles	3,988.61	31.46	190.34	15,024.50	25,000.00	60.1%
<b>Total 526.46 · Repair &amp; Maintenance</b>	<b>4,984.61</b>	<b>1,931.76</b>	<b>3,201.69</b>	<b>42,150.45</b>	<b>91,250.00</b>	<b>46.19%</b>
526.470 · Printing & Binding	0.00	0.00	0.00	0.00	1,250.00	0.0%
526.490 · General Dept. - Misc.						
490.08 · Computer/IT Services	340.00	0.00	0.00	510.00	6,000.00	8.5%
490.10 · Employee Assistance Program	90.00	90.00	0.00	1,080.00	1,100.00	98.18%
490.12 · Membership & Retention	0.00	0.00	0.00	0.00	2,500.00	0.0%
<b>Total 526.490 · General Dept. - Misc.</b>	<b>430.00</b>	<b>90.00</b>	<b>0.00</b>	<b>1,590.00</b>	<b>9,600.00</b>	<b>16.56%</b>
526.491 · Training - Instructor Fees, Edu						
491.06 · ACE with 12-lead	0.00	0.00	0.00	0.00	2,400.00	0.0%



**KEY LARGO FIRE RESCUE AND EMS DISTRICT**  
**FISCAL YEAR 19-20**  
**JULY, AUGUST, SEPTEMBER 2020 & YTD ACTUALS VERSUS BUDGET**

	Jul 20	Aug 20	Sep 20	Oct '19 - Sep 20	Budget	% of Budget
491.07 · ACLS/PALS	0.00	0.00	0.00	2,225.00	1,500.00	148.33%
491.08 · ClinCon or EMS Expo	0.00	0.00	0.00	960.00	1,760.00	54.55%
491.10 · Misc. Training/Books	0.00	0.00	0.00	0.00	900.00	0.0%
491.11 · Advanced Airway Management	0.00	0.00	0.00	0.00	2,400.00	0.0%
491.12 · Handtevy PALS class	0.00	0.00	0.00	0.00	1,750.00	0.0%
491.20 · Advanced Stroke Life Support	0.00	0.00	0.00	700.00	2,400.00	29.17%
491.21 · Florida Mass Casualty Triage	0.00	0.00	0.00	0.00	900.00	0.0%
491.22 · Fire EMS Academy	0.00	0.00	0.00	1,720.00	0.00	100.0%
<b>Total 526.491 · Training - Instructor Fees, Edu</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5,605.00</b>	<b>14,010.00</b>	<b>40.01%</b>
526.510 · Office Supplies	399.93	462.39	68.84	3,588.62	2,500.00	143.55%
526.520 · Operating Supplies						
520.09 · Station Supplies	3,653.27	660.78	3,378.44	19,230.22	9,750.00	197.23%
520.10 · Medical Supplies	8,362.66	3,478.56	5,798.49	51,304.57	52,000.00	98.66%
520.11 · Uniforms & Membership Supplies	0.00	0.00	0.00	5,523.56	4,500.00	122.75%
520.13 · Small Tools	0.00	0.00	0.00	3,851.38	4,780.00	80.57%
<b>Total 526.520 · Operating Supplies</b>	<b>12,015.93</b>	<b>4,139.34</b>	<b>9,176.93</b>	<b>79,909.73</b>	<b>71,030.00</b>	<b>112.5%</b>
526.522 · Fuel - Diesel	1,839.82	1,069.23	0.00	9,677.17	14,000.00	69.12%
526.524 · Medicine & Drugs	848.76	275.99	960.26	11,175.95	22,600.00	49.45%
526.540 · Dues, Subscriptions	0.00	126.00	0.00	126.00	450.00	28.0%
526.6 · Capital Expenditures						
526.620 · Capital Outlay - Buildings	0.00	0.00	0.00	40,101.08	47,602.00	84.24%
526.640 · Capital Outlay - Equipment	0.00	0.00	16,545.00	16,545.00	0.00	100.0%
<b>Total 526.6 · Capital Expenditures</b>	<b>0.00</b>	<b>0.00</b>	<b>16,545.00</b>	<b>56,646.08</b>	<b>47,602.00</b>	<b>119.0%</b>
<b>Total 1300 · Key Largo EMS</b>	<b>59,582.77</b>	<b>46,549.12</b>	<b>65,612.70</b>	<b>660,154.14</b>	<b>799,443.00</b>	<b>82.58%</b>
<b>Total Expenditures</b>	<b>218,236.23</b>	<b>350,647.94</b>	<b>191,171.70</b>	<b>2,804,854.70</b>	<b>3,125,833.00</b>	<b>89.73%</b>
<b>Net Excess/(Deficiency) of Revenues Over/(Under) Expenditures</b>	<b>-215,369.49</b>	<b>-348,317.67</b>	<b>-38,901.80</b>	<b>942,783.55</b>	<b>679,144.00</b>	<b>138.82%</b>
511.911 · Transfer to Veh & Equip Fund	18,750.00	18,750.00	18,750.00	225,000.00	225,000.00	100.0%
<b>Net Excess/(Deficiency) of Revenues Over/(Under) Expenditures after transfer to Reserves</b>	<b>\$ (234,119.49)</b>	<b>\$ (367,067.67)</b>	<b>\$ (57,651.80)</b>	<b>\$ 717,783.55</b>	<b>\$ 454,144.00</b>	<b>38.82%</b>



# KEY LARGO VOLUNTEER AMBULANCE CORPS, INC.

98600 Overseas Highway Key Largo, Florida 33037 Phone: 305-451-2766 Fax: 305-451-1562

## Business Meeting Agenda Date: September 8, 2020 via Zoom

1. Call to Order
2. Approval of Agenda
3. Announcements
4. Public Comment
5. Approval of Minutes of August 2020 meeting
6. Treasurer's Report of August 2020 Report
7. Committee Reports
8. Legal Report
9. Membership Review
10. Old Business
11. New Business
  - A. Election Discussion and Approval
12. Membership Discussion
13. Adjournment





# KEY LARGO VOLUNTEER AMBULANCE CORPS, INC.

98600 Overseas Highway Key Largo, Florida 33037 Phone: 305-451-2766 Fax: 305-451-1562

## Business Meeting

Date: September 8, 2020 via Zoom

Board members in attendance were Brenda Beckmann, Ken Edge, Tess Marra and Scott Robinson. A quorum was present. Chief Don Bock was also in attendance.

1. Meeting was called to order at 6:31 pm by President Scott Robinson.
2. Approval of Agenda  
Tess Marra seconded by Ken Edge moved approval of the agenda. Motion carried.
3. Announcements
  - Testing was held and the Chief is completing the scoring.
  - The new Life pak 15 has been ordered. A credit was received for the old one making the price of the new machine much less than expected.
  - Congratulations to Board Member Ken Edge who has been elected as a new Fire EMS District Board Member.
  - A contract has been entered into with 10-8 to service the vehicles for both departments.
  - Brenda Beckmann announced that new CPR Guidelines will be coming forth and all CPR Instructors should get with her.
  - The Corps has some Covid-19 rapid tests for members however there must be a reason to be tested such as symptoms.
4. Public Comment  
No public comment.
5. Approval of Minutes  
Ken Edge seconded by Tess Marra moved approval of the August, 2020 minutes. Motion carried.
6. Treasurer's Report  
Tess Marra reported a balance of \$ 219,796.84 as of August 31, 2020. Ken Edge seconded by Brenda Beckmann moved approval of the treasurer's report. Motion carried.
7. Committee Reports  
No report.
8. Legal Report  
No Report



## KEY LARGO VOLUNTEER AMBULANCE CORPS, INC.

98600 Overseas Highway Key Largo, Florida 33037 Phone: 305-451-2766 Fax: 305-451-1562

9. Membership Review

There were no requests to be considered.

10. Old Business

There was no Old Business to consider

11. New Business

A. Elections: Scott Robinson expressed an interest in running again as has Dawn DeBrule. Tess Marra was instructed to send an email to the membership requesting those qualified interested persons to contact her

12. Membership Discussion

No discussion.

13. Adjournment

There being no further business, Benda Beckmann seconded by Ken Edge moved adjournment. Motion carried. Meeting adjourned at 6:46 pm.

Kay Cullen

Recording Secretary



**Key Largo Volunteer Ambulance Corp Inc.**  
**Treasurer's Report**  
**September 2020**

	Billing Account	Corp Account	Building Account	CPR Account	Certificates of Deposit	Total
<b>Beginning Balance</b>	\$30,282.21	\$3,263.14	\$2,441.30	\$1,616.71	\$182,193.48	\$219,796.84
<u>Revenues</u>						
Interest	0.80		0.20	0.13		1.13
Medical Fees	20,620.23					20,620.23
Medical Transcripts						0.00
KL Fire Rescue & EMS Reimb	9,999.00	20,475.45				30,474.45
Donations						0.00
Educational Income						0.00
Uncollected Income/Adjustmts	-21,119.16					-21,119.16
Misc Income						0.00
<b>Total Revenues</b>	\$9,500.87	\$20,475.45	\$0.20	\$0.13	\$0.00	\$29,976.65
<u>Expenditures</u>						
Advertising						0.00
Medical Billing Refunds	1,391.71					1,391.71
Payroll Expenses	26,042.16	22,841.55				48,883.71
Dues & Subscriptions						0.00
Professional Fees		1,200.00				1,200.00
Supplies						0.00
Bank Service Charges	97.32	70.00				167.32
Licenses & Permits		128.04				128.04
Repairs						0.00
<b>Total Expenditures</b>	\$27,531.19	\$24,239.59	\$0.00	\$0.00	\$0.00	\$51,770.78
<b>Ending Balance</b>	\$12,251.89	-\$501.00	\$2,441.50	\$1,616.84	\$182,193.48	\$198,002.71
TRANSFERS	(11,775.59)	11,775.59	0.00	0.00		0.00
Balance before Adjustment	476.30	11,274.59	2,441.50	1,616.84	182,193.48	198,002.71
Adjustment to arrive at Actual	16,889.55	4,240.59	0.00	0.00	0.00	21,130.14
<b>ACTUAL BALANCE @ MO END</b>	\$17,365.85	\$15,515.18	\$2,441.50	\$1,616.84	\$182,193.48	\$219,132.85



## KEY LARGO EMS

### CALL STATISTICS SEPTEMBER 2020

Total calls-----	112
Transports-----	72
ALS-----	43
BLS-----	21
Back up-----	07
Pediatric-----	0
Trauma alerts-----	0
Cardiac arrests-----	2
Public assists-----	7
Stand By-----	0
fires-----	0
Cancelled-----	4
Refusals-----	20

Response times-6.7 min.

Scene times -18.7 min.





# KEY LARGO VOLUNTEER FIRE DEPARTMENT, INC.

1 East Drive

Key Largo, Florida 33037

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## Business Meeting

DATE: SEPTEMBER 8, 2020 via Zoom

### AGENDA

1. Call to Order
2. Approval of Agenda
3. Announcement
4. Public Comment
5. Approval of Minutes for August 2020
6. Treasurer's Report for August 2020
7. Committee Reports
8. Legal Report
9. Membership Review
10. Old Business
  - A. Formation of By-Law Committee
  - B. Open Board Position
11. New Business
  - A. Elections
12. Membership Discussion
13. Adjournment



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## Business Meeting

Date: September 8, 2020 via Zoom

Board members in attendance were Jason Mumper, Andre Castro, Don Conord and Jonathan Ramey. A quorum was present. Chief Don Bock was also in attendance.

1. Meeting was called to order at 6:58 pm by President Jason Mumper.
2. Approval of Agenda  
Don Conord seconded by Andre Castro moved approval of the agenda. Motion carried.
3. Announcements  
The new fuel tank has been installed at Station 25; a sink was replaced in the station and Ladder 25 is back in service.
4. Public Comment - None
5. Approval of Minutes  
Andre Castro seconded by Don Conord moved approval of the August 2020 minutes. Motion carried.
6. Approval of Treasurer's Report  
Andre Castro seconded by Don Conord moved approval of the August 31, 2020 Treasurer's Report. Motion carried.
7. Committee Reports - None
8. Legal Report - None
9. Membership Review  
10 new hires were added in August and two have already left.
10. Old Business
  - A. By-Law Committee Formation: This item will be tabled until October.
  - B. Open Board Position: This item will be tabled until October.
11. New Business
  - A. Jason Mumper will check with legal with regard to by-law provisions that would apply to this election regarding election vs appointment for the open Board position.
12. Membership Discussion  
Two Lieutenants will be testing for a Captains position.
13. Adjournment  
There being no further business, the meeting was adjourned at 7:23 pm upon motion by Don Conord and seconded by Andre Castro.

Kay Cullen, Recording Secretary



**Key Largo Volunteer Fire Department  
Treasurer's Report  
September 2020**

	<u>Payroll/Reimb</u>	<u>Corp Account</u>	<u>District Expenses</u>	<u>Tee Shirt</u>	<u>Total</u>
<b>Beginning Balance</b>	<b>\$7,644.81</b>	<b>\$4,544.19</b>	<b>\$613.55</b>	<b>\$3.19</b>	\$12,805.74
<u>Revenues</u>					
Revenues & Reimbursements	147,591.88				\$147,591.88
Donations		150.00			150.00
T-Shirts/Sweaters					0.00
Misc Income - State of Florida					0.00
Interest	4.14	0.25	0.05		4.44
<b>Total Revenues</b>	<b>\$147,596.02</b>	<b>\$150.25</b>	<b>\$0.05</b>	<b>\$0.00</b>	<b>\$147,746.32</b>
<u>Expenditures</u>					
Payroll Expenses	82,554.29	0.00	0.00	0.00	\$82,554.29
Employee's Share Health Insurance	-1,386.50	0.00	0.00	0.00	-1,386.50
Health Insurance	6,094.18	0.00	0.00	0.00	6,094.18
Uniforms	0.00	0.00	0.00	0.00	0.00
Background Checks	0.00	0.00	0.00	0.00	0.00
Miscellaneous	3,886.23	0.00	0.00	0.00	3,886.23
Professional Fees	0.00	1,200.00	0.00	0.00	1,200.00
Training	0.00	0.00	0.00	0.00	0.00
Supplies	492.73	179.88	0.00	0.00	672.61
Dues & Subscriptions	124.85	0.00	0.00	0.00	124.85
<b>Total Expenditures</b>	<b>\$91,765.78</b>	<b>\$1,379.88</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$93,145.66</b>
<b>Ending Balance</b>	<b>\$63,475.05</b>	<b>\$3,314.56</b>	<b>\$613.60</b>	<b>\$3.19</b>	<b>\$67,406.40</b>
TRANSFERS					0.00
Balance before Adjustment	\$63,475.05	\$3,314.56	\$613.60	\$3.19	\$67,406.40
Adjustment to arrive at Actual	767.23	750.00	0.00	0.00	1,517.23
<b>ACTUAL BALANCE @ MO END</b>	<b>\$62,707.82</b>	<b>\$2,564.56</b>	<b>\$613.60</b>	<b>\$3.19</b>	<b>\$65,889.17</b>
*Payroll Liabilities	-\$2.90				
Fixed Asset Purchases	\$1,660.13				
IAFF CK '19 ADD BACK(UNCLEARED)	-\$140.00				
Total Adjustments	<b>\$1,517.23</b>				

# Manpower Analysis by Incident

Key Largo Fire Department

Date Range: From 10/01/2020 to 10/31/2020

Fixed Property:

Company: All Companies

Incident Type	Incident Count	Number Attended	Average Attended	Total Length (hrs)	Average Length (hrs)	Average Man Hours	Total Man Hours
142-Brush or brush-and-grass mixture fire	1	3	3.00	0.17	0.17	0.51	0.51
300-Rescue, EMS incident, other	1	4	4.00	0.93	0.93	3.72	3.72
311-Medical assist, assist EMS crew	2	8	4.00	0.13	0.07	0.26	0.52
321-EMS call, excluding vehicle accident with injury	19	60	3.16	8.65	0.46	1.51	28.65
322-Motor vehicle accident with injuries	6	29	4.83	2.63	0.44	2.01	12.06
324-Motor vehicle accident with no injuries.	1	6	6.00	0.28	0.28	1.68	1.68
412-Gas leak (natural gas or LPG)	1	3	3.00	1.15	1.15	3.45	3.45
442-Overheated motor	1	7	7.00	0.28	0.28	1.96	1.96
445-Arcing, shorted electrical equipment	2	5	2.50	0.57	0.29	0.71	1.41
500-Service Call, other	1	4	4.00	0.15	0.15	0.60	0.60
511-Lock-out	2	9	4.50	0.92	0.46	1.97	3.93
522-Water or steam leak	1	4	4.00	0.57	0.57	2.28	2.28
531-Smoke or odor removal	2	12	6.00	0.38	0.19	1.22	2.44
550-Public service assistance, other	1	3	3.00	0.10	0.10	0.30	0.30
553-Public service	1	3	3.00	1.77	1.77	5.31	5.31
611-Dispatched & canceled en route	4	11	2.75	0.17	0.04	0.13	0.51
700-False alarm or false call, other	1	4	4.00	0.40	0.40	1.60	1.60
745-Alarm system activation, no fire - unintentional	2	9	4.50	0.85	0.43	1.97	3.93
900-Special type of incident, other	1	3	3.00	0.55	0.55	1.65	1.65
911-Citizen complaint	1	2	2.00	0.00	0.00	0.00	0.00
Blank. Incident Type not Entered	4	0	0.00	0.43	0.11		0.00
Total and Averages for all Incident Types	55	189	3.44	21.08	0.38		76.51



# NFPA Analysis Report

Key Largo Fire Department

Date Range: From 10/01/2020 to 10/31/2020

Fixed Property:

FIRE IN STRUCTURES BY FIXED PROPERTY USE (OCCUPANCY)  (All in Section A Incident Type 110-129)	Number of Fires	Number of Civilian Fire Casualties. If none, write 0.		Estimated Property Damage from Fire. If no loss, write 0.
		Deaths	Injuries	
1. Private Dwellings (1 or 2 family), including mobile homes (FPU 400-419)	0	0	0	\$0
2. Apartments (3 or more families) FPU 429 or FPU 439)	0	0	0	\$0
3. Hotels and Motels (FPU 449)	0	0	0	\$0
4. All other residential (dormitories, boarding houses, tents, etc.) (FPU 459-499)	0	0	0	\$0
5. TOTAL OTHER RESIDENTIAL FIRES (SHOULD BE SUM OF LINES 1 THROUGH 4)	0	0	0	\$0
6. Public Assembly (church, restaurant, clubs, etc.) (FPU 100-199)	0	0	0	\$0
7. Schools and Colleges (FPU 200-299)	0	0	0	\$0
8. Health Care and Penal Institutions (hospitals, nursing homes, prisons, etc.) (FPU 300-399)	0	0	0	\$0
9. Stores and Offices (FPU 500-599)	0	0	0	\$0
10. Industry, Utility, Defense, Laboratories, Manufacturing (FPU 600-799)	0	0	0	\$0
11. Storage in Structures (barns, vehicle storage garages, general storage, etc.) (FPU 800-899)	0	0	0	\$0
12. Other Structures** (outbuildings, bridges, etc.) (FPU 900-999)	0	0	0	\$0
13. TOTALS FOR STRUCTURE FIRES (SHOULD BE SUM OF LINES 5 THROUGH 12)	0	0	0	\$0

## B. OTHER FIRE AND INCIDENTS

14a. Fires in Highway Vehicles (autos, trucks, buses, etc.) (IT 131-132, 136-137)	0	0	0	\$0
14b. Fires in Other Vehicles (planes, trains, ships, construction or farm vehicles, etc.) (IT 130, 133-135, 138)	0	0	0	\$0
15. Fires outside of Structures with Value Involved, but Not Vehicles (outside storage, crops, timber, etc. (IT 140, 141, 161, 162, 164, 170-173)	0	0	0	\$0
16. Fires in Brush, Grass, Wildland (excluding crops and timber) with no value involved. (IT 142-143)	1	0	0	
17. Fires in Rubbish, Including Dumpsters (outside of structures), with no value involved. (IT 150-155)	0	0	0	
18. All Other Fires. (IT 100, 160, 163)	0	0	0	\$0
19. TOTAL FOR FIRES (SHOULD BE SUM OF LINES 13 THROUGH 18)	1	0	0	\$0
20. Rescue, Emergency Medical Responses (ambulance, EMS, rescue) (IT 300-381)	20			
21. False Alarm Responses (malicious or unintentional false calls, system malfunctions, bomb scares) (IT 700-746)	3			
22. Mutual Aid or Assistance Responses Given	11			
23a. Hazardous Materials Responses (spills, leaks, etc.) (IT 410-431)	1			
23b. Other Hazardous Conditions (arcing wires, bomb removal, power line down, etc.) (IT 440-482, 400)	3			
24. All Other Responses (smoke scares, lock-outs, animal rescues, etc.) (IT 200-251, 500-699, 800-911)	16			
25. TOTAL FOR ALL INCIDENTS (SHOULD BE SUM OF LINES 19 THROUGH 24)	55			

Based on what is reported in lines 5 and 13 for number of fire above, please report separately:

*Confined fires (e.g., cooking fires confined to cooking vessel, or chimney fire that did not spread beyond chimney, or confined trash fires) IIT 113 - 118), and Nonconfined fires (IT 110 - 112, 120 - 123).*

	Number of Confined Fires	Number of Nonconfined Fires
5. Residential Fires (line 5 above)	0	0
13. Structure Fires (line 13 above)	0	0

## BREAKDOWN OF FALSE ALARM RESPONSES

1. Malicious, Mischievous False Call (IT 710-715)	0
2. System Malfunction (IT 700-739)	0
3. Unintentional (tripping on Interior device accidentally etc.) (IT 740-749)	2
4. Other False Alarms (bomb scares, etc.) (IT 721, 700)	1

# Incident Run Log

## Key Largo Fire Department

Date Range: From 10/01/2020 to 10/31/2020

Fixed Property:

Company: All Companies

Sorted by: Not selected

Date	FDID	Incident#	Alarm	###	Address	Suite	Type	Lgth
10/31/2020	38032	2020-000653	11:23	874	ELLEN DR		Brush or brush-and-grass mixture fire	0.2
10/16/2020	38032	2020-000630	07:31	157	DICKIE WAY		Rescue, EMS incident, other	0.9
10/02/2020	38032	2020-000605	20:12	1027	OVERSEAS HWY		Medical assist, assist EMS crew	0.1
10/03/2020	38032	2020-000606	01:28	522	CARIBBEAN DR		Medical assist, assist EMS crew	0.0
10/01/2020	38032	2020-000600	05:31	434	BIG PINE RD		EMS call, excluding vehicle accident with injury	0.6
10/01/2020	38032	2020-000601	16:29	1039	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.4
10/01/2020	38032	2020-000602	16:38	9851	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.3
10/01/2020	38032	2020-000603	17:56	1039	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.3
10/04/2020	38032	2020-000611	16:32	915	PLANTATION RD / 106 MM GU		EMS call, excluding vehicle accident with injury	0.3
10/10/2020	38032	2020-000616	23:10	316	BUTTONWOOD CIR		EMS call, excluding vehicle accident with injury	0.5
10/10/2020	38032	2020-000617	23:38	83	LAKE SHORE DR		EMS call, excluding vehicle accident with injury	0.3
10/11/2020	38032	2020-000619	10:02	500	ST CROIX PL		EMS call, excluding vehicle accident with injury	0.4
10/11/2020	38032	2020-000620	18:13	13	BONITA AVE		EMS call, excluding vehicle accident with injury	0.3
10/12/2020	38032	2020-000621	02:08	1038	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.5
10/12/2020	38032	2020-000622	05:39	4	BLACKWATER LN NORTH	114	EMS call, excluding vehicle accident with injury	0.4
10/12/2020	38032	2020-000623	11:41	28	GORDON CIR		EMS call, excluding vehicle accident with injury	0.3
10/15/2020	38032	2020-000626	10:02	1048	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.3
10/17/2020	38032	2020-000635	16:03	1053	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.3
10/17/2020	38032	2020-000636	17:32	1079	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.7
10/20/2020	38032	2020-000639	19:09	25	CORMORANT DR		EMS call, excluding vehicle accident with injury	0.5
10/30/2020	38032	2020-000649	09:59	1079	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.5
10/31/2020	38032	2020-000652	02:34	134	LONG KEY RD		EMS call, excluding vehicle accident with injury	0.5
10/31/2020	38032	2020-000654	22:13	343	3 RD		EMS call, excluding vehicle accident with injury	1.2
10/03/2020	38032	2020-000607	12:48		ADAMS CUT / 103 MM OC		Motor vehicle accident with injuries	0.3
10/04/2020	38032	2020-000612	18:04	1079	OVERSEAS HWY		Motor vehicle accident with injuries	0.7
10/05/2020	38032	2020-000613	17:24	9768	OVERSEAS HWY		Motor vehicle accident with injuries	0.4
10/10/2020	38032	2020-000614	16:35	109	US1		Motor vehicle accident with injuries	0.5
10/16/2020	38032	2020-000632	17:23		TARPON BASIN DR / 101.4 M		Motor vehicle accident with injuries	0.3
10/23/2020	38032	2020-000640	09:34	1022	OVERSEAS HWY	NB	Motor vehicle accident with injuries	0.5
10/17/2020	38032	2020-000634	07:22	97	US1	NB	Motor vehicle accident with no injuries.	0.3
10/10/2020	38032	2020-000615	16:41	1043	OVERSEAS HWY		Gas leak (natural gas or LPG)	1.1
10/03/2020	38032	2020-000608	20:58	213	BUTTONWOOD AV 101.5		Overheated motor	0.3
10/28/2020	38032	2020-000647	19:55		MILE POST C1 ON SR 905		Arcing, shorted electrical equipment	0.3
10/30/2020	38032	2020-000650	11:51	1	SOUTH DR		Arcing, shorted electrical equipment	0.3
10/20/2020	38032	2020-000638	09:04	138	MARINA AVE		Service Call, other	0.1
10/27/2020	38032	2020-000644	12:41	1014	OVERSEAS HWY		Lock-out	0.7
10/27/2020	38032	2020-000645	13:09	24	OCEAN DR N C 1.5		Lock-out	0.3
10/04/2020	38032	2020-000609	02:00	1036	OVERSEAS HWY	1	Water or steam leak	0.6
10/15/2020	38032	2020-000628	14:15	1108	GRAND STREET		Smoke or odor removal	0.1
10/23/2020	38032	2020-000642	14:59	40	HARRY DAVIS CIRCLE		Smoke or odor removal	0.2
10/14/2020	38032	2020-000625	13:09	1	EAST DRIVE 99MM OC		Public service assistance, other	0.1
10/04/2020	38032	2020-000610	15:07	106	US1		Public service	1.8
10/11/2020	38032	2020-000618	08:29	4	BLACKWATER LN NORTH	114	Dispatched & canceled en route	0.2
10/16/2020	38032	2020-000631	10:15	1103	GRAND ST		Dispatched & canceled en route	0.0
10/16/2020	38032	2020-000633	21:17	1025	OVERSEAS HWY		Dispatched & canceled en route	0.0
10/18/2020	38032	2020-000637	15:38	1079	OVERSEAS HWY		Dispatched & canceled en route	0.0
10/23/2020	38032	2020-000641	10:55	1500	OCEAN BAY DR	308	False alarm or false call, other	0.4
10/02/2020	38032	2020-000604	02:48	1048	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0.5
10/15/2020	38032	2020-000627	11:09	1025	OVERSEAS HWY	1	Alarm system activation, no fire - unintentional	0.3
10/13/2020	38032	2020-000624	15:22	9871	OVERSEAS HWY		Special type of incident, other	0.6
10/15/2020	38032	2020-000629	14:44	227	ATLANTIC BLVD		Citizen complaint	0.0
10/25/2020	38032	2020-000643	19:58	30	PALM BEACH DR			0.1
10/28/2020	38032	2020-000646	15:40		MARINA AVE 99.6 OC			0.0
10/29/2020	38032	2020-000648	19:28	9933	OVERSEAS HWY			0.3
10/31/2020	38032	2020-000651	00:59	9600	OVERSEAS HWY	X34		0.0








Total Number of Incidents: 55

Total Length of Incidents: 21.1 Hours

# Alarms by Day of Week

Key Largo Fire Department

Date Range: From 10/01/2020 to 10/31/2020  
Fixed Property:

Day of Week		Totals
Sunday		9
Monday		4
Tuesday		5
Wednesday		3
Thursday		9
Friday		11
Saturday		14

No Date 0  
Total Alarms 55