



IPA SYSTEMS

# IPATOP VO

Vertical and Overhead Polymer Modified Repair Mortar



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## QUALITY PRODUCTS FOR THE CONCRETE /MASONRY REPAIR INDUSTRY

### Description

**IPATOP VO** is a two component cementitious polymer modified repair mortar. Controlled set and slump provide a superior **NON-SAG** repair mortar for vertical and overhead applications repairs.

### Where to Use

IPATOP HES is ideal for the horizontal concrete repairs where high early strength gain is required for a fast project turnover. Applications include: interior / exterior Structural concrete repairs, bridge decks, parking decks, industrial floors, airport runways

### Advantages

- ◆ Made in America
- ◆ Excellent non-sag properties designed for deeper lifts per application
- ◆ Superb workability and finishing properties
- ◆ Can be shaven to meet architectural requirements
- ◆ Excellent freeze-thaw resistance
- ◆ Pre-measured units, no water needed
- ◆ Dries concrete gray

### Coverage

Yield is 0.45 cubic feet (0.01 cubic meter)

### Packaging

Two component Kit: Component A — Liquid Polymer in 1 Gallon Plastic Jug (3.8 Liters)  
 Component B — Powder blend of portland cement, admixtures and finely graded aggregates in 44.0 LB (20 kg) bag. Total Kit Weight is 52.5 lb. (23.8 kg)  
 Shelf life: 1 year in unopened bag. Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.

### Technical Data

Compressive Strength (ASTM C 109)	Length Change (ASTM C 157)
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<table border="0"> <tr><td>1 day</td><td>3300 psi</td></tr> <tr><td>3 day</td><td>3900 psi</td></tr> <tr><td>7 day</td><td>4300 psi</td></tr> <tr><td>28 day</td><td>5000 psi</td></tr> </table>	1 day	3300 psi	3 day	3900 psi	7 day	4300 psi	28 day	5000 psi	<table border="0"> <tr><td colspan="2">Air Cure</td></tr> <tr><td>1 day</td><td>-0.01 %</td></tr> <tr><td>7 day</td><td>-0.02 %</td></tr> <tr><td>28 day</td><td>-0.03 %</td></tr> </table>	Air Cure		1 day	-0.01 %	7 day	-0.02 %	28 day	-0.03 %
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Slant Shear Bond (ASTM C 882)	Flexural Strength (ASTM C 78)	
7 day	1750 psi	
28 day	2200 psi	
	28 day	950 psi

Abrasion Resistance – Excellent  
 Impact Resistance – Excellent

### Surface Prep

Substrate to be repaired must be cleaned of any film, scale, loose material, oils, grease and any other foreign material that will prohibit bond. Surface preparation must be achieved by mechanical means and methods. **IPATOP VO** may be feather edged for non-traffic bearing areas. Surface must be SSD (Surface Saturated Dry) prior to application of **IPATOP VO**.

IPA SYSTEMS, INC

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### Mixing

Mixing may be done manually (small quantity) or mechanically (Jiffy® mixer or mortar mixer). Shake Component A thoroughly and add to mixing container. Mix as the Component B is added. Mix for 3 minutes until the mortar is uniform in consistency. **When Batching:** the correct mixing ratio, by weight, is required.

### Application

While the surface is SSD, scrubbed mortar thoroughly into the substrate to insure proper bond (Apply to scrub coat while wet, do not apply to dry scrub coat). Work material against the edges of the repair area and then towards center making sure to consolidate mortar. For deep repairs multiple lifts can be achieved. For multiple lifts, score the top surface of each lift to provide a surface profile for the next lift. Allow material to reach a harden state before applying a new lift. Minimum lift is 1/8 inch and maximum is 1.5 inches. Each lift must be SSD followed by a scrub coat. **For final finish:** After initial set is attained, mortar may be sculptured or finished to desired shape. Wood, sponge or steel trowel may be used, depending upon desired finish.

**Curing:** is strongly recommended by ACI practices. Immediately following finishing, moist cure with burlap and polyethylene, or a fine mist of clean water or a water based curing compound conforming to ASTM C-309 standards. Do not apply curing compound between lifts, it will affect the adhesion of the next lift.

### Limitations

- ◆ Minimum material, surface and ambient temperature must be 45°F (7°C) and rising
- ◆ Minimum application: 1/8 Inch- Maximum lift: 1.5 inches
- ◆ Do not apply to a frozen surface or allow material to freeze
- ◆ Do not use solvent based curing compounds

### Clean-up

Clean up must be done immediately due to the high bonding characteristics of IPATOP VO. Clean equipment with water.

### Caution

#### **FOR INDUSTRIAL USE ONLY:**

Freshly mixed cement, mortar, grout, or concrete may cause minor skin irritation. Avoid direct contact where possible and wash exposed skin area promptly with water. If any of the cementitious material gets into the eyes, rinse immediately and repeatedly with water. If irritation persists, obtain medical assistance.

### Warranty

This product is warranted and guaranteed to be of good quality. Manufacturer, as its sole and exclusive liability hereunder, will replace material if proved defective. This warranty and guarantee are expressly in lieu of all others, express or implied, including any implied warranty of merchantability or fitness for a particular purpose and may not be extended by representatives or any persons, written sales information, or drawing in any manner whatsoever. While the manufacturer recommends uses for the product based on tests believed reliable, no warranties, express or implied, or guarantee can be given as to particular methods of use or application, nor can performance be warranted, expressly or impliedly, or guaranteed under special conditions. Distributors, salesperson or company representatives are not authorized to extend or vary any warranties or guarantees beyond those outlined herein nor may the manufacturer's or seller's limitation of liability be waived or altered in any manner whatsoever.

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