



IPA SYSTEMS

IPATOP RM

Single Component General Repair Concrete Repair Mortar



IPA SYSTEMS

QUALITY PRODUCTS FOR THE CONCRETE /MASONRY REPAIR INDUSTRY

Description

IPATOP RM is a premixed, single component, cementitious, high strength, versatile repair mortar. **IPATOP RM** contains a blend of graded silica sands to produce a repair mortar that can be used in a wide range of consistencies.

Where to Use

To fill voids and cavities in concrete. Typical uses include horizontal patching of bridge decks, parking garages and machine pads in industrial applications where impact damage and spalling have caused deep wear.

Advantages

- ◆ Made in America
- ◆ Has both high early and high ultimate strengths
- ◆ High abrasion resistance
- ◆ Contains no corrosive or corrosion susceptible ingredients
- ◆ Excellent freeze-thaw resistance
- ◆ Economical and easy to use
- ◆ May be poured, troweled, pumped, vibrated or agitated without segregation or compaction

Coverage

Yield: A 52 lb. (23.6 kg) bag of **IPATOP RM** yields about 0.5 cubic feet (14.2 L) of material at the plastic consistency. Up to 25 lbs. (11.3 kg) of washed pea gravel may be added per bag of **IPATOP RM**.

Packaging

IPATOP RM is packaged in 52 lb. Bags (23.6 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

Ultimate Compressive Strength, psi (MPa) (ASTM C109)

Qts Water/52 lb Bag	1 Day	3 Days	7 Days	28 Days
2 1/2 (2.4 L)	7,200 (49.6)	9,500 (65.5)	11,000 (75.8)	12,000 (82.7)
3 1/2 (3.3 L)	6,000 (41.4)	7,500 (51.7)	8,500 (58.6)	9,400 (64.8)
4 (3.8 L)	5,000 (34.5)	6,200 (42.7)	7,500 (51.7)	8,600 (59.3)
4 1/2 (4.3 L)	4,300 (29.6)	5,200 (35.9)	7,000 (48.3)	8,000 (55.2)

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. Surface must be SSD (Surface Saturated Dry) prior to application of **IPATOP RM**.

Mixing

Mixing may be done manually (small quantity) or mechanically (Jiffy® mixer or mortar mixer). If hand mixed assure thorough intermixing of material. Use the following amounts of clean potable water per 52 lb. (23.6 kg) bag of **IPATOP RM**.

Plastic 3 1/2 quarts (3.3 L)

Pourable 4 quarts (3.8 L)

Pumpable 4 1/2 quarts (4.3 L)

Mix thoroughly. Continue to mix for an additional 2 to 3 minutes after desired consistency is achieved.

IPA SYSTEMS, INC

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Application

IPATOP RM should be placed using concrete repair practices appropriate for the application. Substrate should be prepared by scrubbing a slurry coat of same material into the surface (add minimal water to a working quantity of **IPATOP RM** to achieve slurry consistency). Consolidate **IPATOP RM** repair mortar using pencil vibrator or by rodding thoroughly to remove voids. Screed to align repair surface with surrounding edges. Repaired area should be troweled and finished to seal the surface and repair edges. Then apply broom finish if desired. When making larger pours, subsequent batches should be pre-mixed to permit continuous placement of mortar. Working or "open time" is approximately 30 minutes at 70°F (21.1°C). If forms are used they may be removed, after 24 hours.

Curing:

Curing of **IPATOP RM** should be accomplished using the latest ACI standards for concrete curing. Seven day water mist or wet burlap secured under poly-sheeting will usually provide the best curing conditions.

Limitations

- ◆ Minimum material, surface and ambient temperature must be 45°F (7°C) and rising
- ◆ Minimum application: 1/2 Inch
- ◆ 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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