



IPA SYSTEMS

IPANOL E-FLEX RM

Multi-Purpose, High Strength, Flexible Epoxy Repair Mortar



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QUALITY PRODUCTS FOR THE CONCRETE /MASONRY REPAIR INDUSTRY

Description

Ipanol E-Flex RM is a 100% solids, three component, multi-purpose, high strength, flexible, non-shrink epoxy repair mortar. It is combined with a select blend of engineered aggregates to provide a superior repair mortar with similar characteristics to the host concrete.

Where to Use

Ipanol E-Flex RM is used for repairing concrete and as a leveling or slopping epoxy material. Application use: parking decks, ramps, pedestrian walkways, bridge decks, loading docks, joint nosings, industrial plants, and mechanical rooms.

Advantages

- ◆ Made in America
- ◆ Low modulus- flexible
- ◆ High tensile, compressive & early strengths
- ◆ Compatible with Ipanol E-Flex Overlay System
- ◆ Moisture insensitive, nonflammable
- ◆ Excellent bond strength –chemically bonds to concrete
- ◆ Easy to mix: 1:1 resin + aggregate: application friendly

Coverage Rate

Small kits mixed yield: .5 cu. ft. / .014 cu m
Large kits mixed yield: 2 cu. ft. / .56 cu m kits

Packaging

Small kits mixed yield: .5 cu. ft. / .014 cu m Large kits mixed yield: 2 cu. ft. / .56 cu m kits
Shelf Life: One year in unopened containers. Store in a cool dry place out of direct sunlight. Keep from freezing.
Storage Conditions: store at 40°-95°F (5°-35°C). Condition material to 65°-85°F (18°-29°C) before using.

Technical Data

Resin Properties

Tensile Strength:	D-638	3,000 psi
Tensile Elongation:	D-638	50%
Compressive Strength:	C-579	7,000 psi
Bond Strength: (14 day cure)	C-882	3,200 psi
Gel Time:	C-882	15 Minutes
Viscosity:	C-881	1500 cps

Epoxy Mortar Properties

Compressive Strength	C-579-91 Method B
3 hrs @ 75°F (24°)	1300 psi (9 MPa)
3 1/2 hrs @ 75°F	2200 psi (15 MPa)
48 hrs @ 75°F	6800 psi (47 MPa)

Resin Mix Ratio: 1:1

Gel Time (60g mass): neat-30 min. at 73°± 2°F (23°C)

Working time: 15 to 20 minutes-higher temperatures reduces working time.

Approximate cure time: 4 hrs at 65° F.....2 hrs at 75°F.....1 hr at 85°F

Do not open to traffic until fully cured.

Surface Prep

Saw cut approx. 1/2 in / .2 cm deep around perimeter of area to be repaired. Remove all deteriorated and unsound concrete by mechanical means. Thoroughly clean repair area and exposed reinforcing steel by sandblasting to near white metal finish. Remove all dust and loose particles from area.

IPA SYSTEMS, INC

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Mixing

Ipanol E-Flex RM is shipped in a pre-measured .5 cu ft/ .014 cu m unit or a 2 cu ft / .056 cu m unit. *No batching, mix complete kits only.* Pre-mix each liquid component thoroughly. Then pour components A and B into pail and mix thoroughly for 3 minutes with a Jiffy type mixer on low-speed (300 rpm) until material is of uniform consistency. Keep mixer at bottom of pail to avoid introducing air. Once resin is mixed, immediately add component C (aggregate) into mixed resin components. Mix thoroughly until all aggregate is wetted out.

Application

Prime repair area with mixed resin components A and B with brush or roller. Immediately place Ipanol E-Flex RM. Set screeds or float to desired level, strike off, thoroughly compact and finish the surface to desired profile.

Limitations

- ◆ Minimum material, surface and ambient temperature must be 40°F and rising
- ◆ Minimum age of harden concrete for bonding should be 5-7 days.
- ◆ Do not thin with solvents
- ◆ Material needs to be preconditioned to 65°F before application.

Clean-up

EQUIPMENT: Uncured material can be removed with a citrus cleaner or another approved solvent. Cured material can only be removed mechanically. **MATERIAL:** Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state, and federal disposal regulations.

Caution

FOR INDUSTRIAL USE ONLY:

Component A – Irritant • Component B – Corrosive • Product is a strong sensitizer. Use of safety goggles and chemical resistant gloves are recommended. • Use of a NIOSH/MSHA organic vapor respirator is recommended if ventilation is inadequate. • Avoid breathing vapors. • Avoid skin contact. First Aid: **EYE CONTACT:** Flush immediately with water for at least 15 minutes. Contact physician immediately. **RESPIRATORY CONTACT:** Remove person to fresh air. **SKIN CONTACT:** Remove any contaminated clothing. Remove epoxy immediately with a dry cloth or paper towel. Solvents should not be used as they carry the irritant into the skin. Wash skin thoroughly with soap and water. **CURED EPOXY RESINS ARE INNOCUOUS.**

Refer to MSDS for more information

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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