



EPM 3000 NS

Non-Shrink, High Strength, Epoxy Patching Mortar



Description

EPM 3000 NS is a three component, 100% solids, high strength, non-shrink epoxy patching mortar. This system combines a high quality epoxy resin with a blend of specialty graded aggregates. **EPM 3000 NS** is designed to provide the performance of a epoxy mortar while demonstrating compatibility with the dynamics of the concrete substrate. **EPM 3000 NS** meets or exceeds the requirements of ASTM C-881.

Uses

- **EPM 3000 NS** is ideal for repairing concrete on warehouse floors, airport runways, bridge joints, manufacturing facilities, processing plants .
- Repair of construction joints.
- Repair of structural columns or beams.
- Repair of areas to be coated with a seamless flooring system, paints or other vapor pressure sensitive coverings and toppings.

Benefits

- Low Modulus.
- Durable.
- High tensile, compressive & early strengths.
- Excellent textured bonding profile.
- High bond strength.
- Increased chemical resistance over concrete.
- Compatible with Type III epoxy overlays.

Packaging: 0.5 ft³ (0.014m³ (unit));
2.0 ft³ (0.057m³ (unit))

Physical Properties

(sand to resin / 3.25 : 1 by volume)

TEST	RESULTS
ASTM C-579 Compressive Strength (3 hrs.)	1599 psi
ASTM C-579 Compressive Strength (24 hours)	6100 psi
ASTM C-579 Compressive Strength (7 days)	7750 psi

C-579 Test Method B / Plastic Inserts

Appearance

Component A - clear
Component B - dark amber
Component C - select aggregate

Coverage

.5 ft³ of epoxy mortar yields:
24 ft² at 1/4" thickness
12 ft² at 1/2" thickness
2 ft³ of epoxy mortar yields:
96 ft² at 1/4" thickness
48 ft² at 1/2" thickness

Gel Time (60g mass) : Neat - Approx. 30 minutes at 73°F ± 2°F (23°C)

Limitations

Do not apply at temperatures below 40°F (5°C). Minimum age of hardened concrete should be at least 7 days. Keep at room temperature for 24 hours prior to application 60-70°F (16-21°C).

EPOXIES

Surface Preparation

Surface must be clean, sound, free of dust, dirt, and other contaminants. Use mechanical means such as sandblasting, shotblasting, bushhammer or other approved method to attain a profile of 1/8" to expose fractured aggregate. Remove all residual dust and dirt by vacuum or by pressure washing. Clean exposed reinforcing steel to a white metal finish. Surface must be free of any standing water.

Mixing

Pre-mix each component thoroughly. Do not over agitate or use high speed mixing equipment. Place 1 part Component A and 1 part Component B into a clean mixing vessel. Mix thoroughly for 3 - 5 minutes with a low speed drill @ 400-600 rpm until uniformly blended. Slowly add component C (aggregate) and continue mixing until all the aggregate is fully incorporated into the epoxy mixture.

Application

Saw cut edges to a minimum thickness of 1/4" greater than the thickness of the overlay. Prime area to be repaired with mixed components A and B with a brush or roller. Do not allow the primer to fully cure. Fill in all non-moving cracks prior to patching. Place the mortar in the desired areas at a slightly higher level than the final height of the repair. Strike off with a screed or float then compact and finish by hand, or machine trowel. All moving joints should be saw-cut, or maintained through the overlay with a divider strip.

Clean-Up

Clean tools and equipment immediately. Use US Spec Maxi-Concrete Cleaner or solvents such as xylene. After material has dried it may be necessary to use mechanical methods to remove.

Storage

Protect from freezing. Store in a cool, dry area above 45°F.

Shelf Life

Approximately 1 year in un-opened container.

Technical Service

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Denver, CO 80223
Phone (303) 778-7227 Fax (303) 722-8426
Web Site: www.usmix.com

Safety Precautions

The use of safety goggles and chemical resistant gloves is recommended. Use only in well ventilated areas. The use of NIOSH/MSHA approved organic respirator is recommended if ventilation is less than adequate. Remove any contaminated clothing. In case of eye contact, flush eyes with water for 15 minutes and contact a physician immediately. For respiratory problems, remove person to a well-ventilated area. For skin contact, remove epoxy with a clean cloth or paper towel. Wash area with soap and water. Wash clothing before re-use.

PRECAUTION: Read and follow application information, precautions, and Material Safety Data Information. ●Component A - Irritant ●Component B - Corrosive -Product is a strong sensitizer.

NOTICE OF LIMITED WARRANTY US MIX Products Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales, people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price.

LIMITATION OF WARRANTIES AND LIABILITY Buyer assumes all risks associated with the use of this product. Manufacturer expressly disclaims all warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose and all other warranties otherwise arising by operation of the law, course of dealing, custom, trade or otherwise.

Buyer's exclusive remedy if this product is proven to be defective is limited to refund of purchase price by the manufacturer. Refund shall only be available if the buyer notifies manufacturer in writing within thirty days following discovery of any defect. Written notice shall be forwarded to U.S. MIX Products Co. at 112 South Santa Fe Drive, Denver, Colorado 80223. No claim can be made twelve months after purchase of the product. Twelve months after the purchase manufacturer's duties with the respect to the product and limited warranty shall be presumed to have been satisfied. Manufacturer in no event is liable for consequential damages.