TECHNICAL DATA SHEET

SpecPoxy Mortar

Epoxy Mortar Repair Kit

DESCRIPTION

SpecPoxy Mortar is a three-component, 100% solids, multi-purpose epoxy mortar. The system combines a high-quality epoxy binder with an engineered blend of graded aggregates. It is specifically engineered to provide superior trowelability, compressive and tensile strength, and impact and chemical resistance for industrial and commercial applications such as warehouse floors, ramps, loading docks and rebuilding joint nosings.

BENEFITS

- Superior bond, compressive and flexural strength compared with cementitious systems
- Long pot life for applications between 60 and 90 °F (16–32 °C)
- For high-traffic areas, such as loading docks and ramps
- Pre-measured proportions for easy installation
- Dries to a light gray mortar color
- Trowelable consistency for horizontal applications
- Superior abrasion, chemical and impact resistance
- Moisture insensitive; stain resistant
- Solvent-free (VOC compliant)
- Foot traffic in 12 hours; vehicle traffic in 24 hours
- USDA accepted for indirect food contact

COMPLIANCE/STANDARDS

Epoxy Mortar: Material shall be a 100% solids, ASTM C881, Type III, Grade 1, multi-purpose trowelable epoxy mortar equal to SpecPoxy Mortar.

APPLICATION

Surface Preparation: Surfaces to receive mortar must be clean and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds and any other foreign matter by sandblasting, mechanical abrasion or oil-free compressed air.

Mixing Instructions: Air, material and surface temperatures must be a minimum of 50 °F (10 °C) and a maximum of 90 °F (32 °C) before mixing or installation. To assist mixing and dispensing, precondition the material to 70 °F (21 °C). Mix each component separately, then mix 1 part Component A with 1 part Component B by volume for 2–3 minutes with a low-speed drill and a Jiffy mixer or paddle. Mix only as much material as can be used within the pot life. Slowly add Component C (aggregate) and mix until all the aggregate is coated with epoxy.

Placing: For mortar overlays or patching, apply the mixed epoxy mortar with a trowel or rake immediately or within 30–40 minutes, allowing the remaining work time for finishing. Use SpecChem Solvent 100 as a finishing aid to lubricate the trowel for a smooth epoxy finish. Broadcast additional dry sand into the wet mortar to increase texture for improved traction.

TECHNICAL DATA INFORMATION

Typical Properties

Cured appearance ..... Gray mortar

Coverage, 1/2 cu ft unit at 1/4" (6 mm) 24 sq ft (2.2 m^2)

Pot life at 75 °F (24 °C) .....40–60 minutes

Compressive strength (ASTM C579)..... 9,600 psi (66.2 MPa)

Bond strength (ASTM C882).....2,650 psi (18.3 MPa)

Tensile strength (ASTM C307).....1,650 psi (11.4 MPa)

Flexural strength (ASTM C580) .....3,450 psi (23.8 MPa)

1511 Baltimore Ave, Suite 600
Kansas City, MO 64108

www.SpecChem.com
816-968-5600

Hardness (Shore D) 85
Water absorption, 24 hours (ASTM D570) ..... < 0.5%

PACKAGING

Unit	Comp. A	Comp. B	Comp. C
1/2 cu ft (14.2 L)	1/2 gal (1.9 L)	1/2 gal (1.9 L)	One 50 lb (22.7 kg) bag
1.0 cu ft (28.3 L)	1 gal (3.79 L)	1 gal (3.79 L)	Two 50 lb (22.7 kg) bags

CLEANING

Remove uncured material from tools and equipment with SpecChem Orange Peel Citrus Cleaner or another approved solvent. Dispose of in accordance with local, state and federal regulations. Cured material must be removed mechanically.

SHELF LIFE

Store SpecPoxy Mortar in its original containers in a dry environment between 45 and 95 °F (7–35 °C). Shelf life of properly stored SpecPoxy Mortar in unopened, undamaged containers is two years from the date of manufacture.

LIMITATIONS

Always test a small amount of SpecPoxy Mortar to verify that the product has been thoroughly mixed and will harden properly before proceeding. Do not thin with any solvent. Surface and air temperatures must be a minimum of 50 °F (10 °C) for application.

Exterior applications subjected to continuous UV exposure may amber slightly; broadcasting additional dry sand into the wet mortar can minimize any color change. Avoid exposure to extreme temperature variation and freeze-thaw cycling. Protect from freezing.

PRECAUTIONS

Prolonged or repeated skin or eye contact may cause irritation. Wear safety glasses and protective rubber gloves. If skin contact occurs, wash immediately with soap and water and seek medical help if needed. If eye contact occurs, flush immediately with water and seek medical help if needed. In case of ingestion, call a physician. Product is a sensitizer. Avoid breathing vapors.

FOR INDUSTRIAL USE ONLY

Additional precautions, safety and first aid information are contained in the Safety Data Sheet (SDS).

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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