TECHNICAL DATA SHEET

DuraMortar

High-Strength, Dustless Epoxy Mortar Repair Kit

DESCRIPTION

DuraMortar is a three-component, 100% solids, high-strength, abrasion-resistant epoxy mortar. The system combines a high-strength, high-modulus epoxy binder with a dust-free engineered aggregate. It is engineered to provide superior trowelability, compressive/tensile strength, and impact, abrasion and chemical resistance in warehouse, industrial and commercial applications such as warehouse floors, ramps, loading docks and rebuilt joint nosings.

BENEFITS

- Superior bond, compressive and flexural strength compared with cementitious systems
- For high-traffic areas such as loading docks and ramps
- Pre-measured proportions for easy installation
- Dries to a gray mortar color
- Trowelable consistency for horizontal applications
- Superior abrasion, chemical and impact resistance
- Moisture insensitive; stain resistant
- VOC compliant; dust-free
- Foot traffic in 12 hours; vehicle traffic in 24 hours
- USDA accepted for indirect food contact

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. Once thoroughly cleaned, profile the surface by shot blasting, scarifying or other means to provide an open (CSP 4–6), dry surface. Air, material and surface temperatures must be between 50 °F and 90 °F (10–32 °C) before mixing or installation.

Priming: Prime the prepared substrate with SpecPoxy 1000 or 2000. To assist mixing and dispensing, precondition the material to 70 °F (21 °C). Mix each component separately, then mix Component A and Component B for approximately 2 minutes with a low-speed drill and a Jiffy mixer or paddle. Apply the primer uniformly to the prepared surface at 100 sq ft/gal (2.5 m^2/L); coverage will depend on substrate roughness and porosity. Primer working time is approximately 20 minutes. Mixed DuraMortar must be applied before the primer becomes tack-free.

Mortar Mixing: Precondition the material to 70 °F (21 °C). Mix each component separately, then mix Component A and Component B for approximately 2–3 minutes with a low-speed drill and a Jiffy mixer or paddle. Slowly add Part C (aggregate) and mix until all the aggregate is coated with epoxy. Mix only as much material as can be used within the pot life. Part C may be reduced by up to 50% to produce a more flowable, screedable mortar; full extension is required for applications over 2" (51 mm) deep.

Placing: Apply the mixed DuraMortar to the still-tacky primed surface and spread it with a trowel or rake immediately or within 20–30 minutes, leaving the remaining working time for finishing. If necessary, use SpecChem Solvent 100 as a finishing aid to lubricate the trowel for a smooth epoxy finish.

TECHNICAL DATA INFORMATION

Cured appearance ..... Gray mortar
Coverage, 1/2 cu ft unit at 1/4" .....25 sq ft (2.3 m^2)
Pot life at 75 °F (24 °C) .....25–30 min

1511 Baltimore Ave, Suite 600
Kansas City, MO 64108

www.SpecChem.com
816-968-5600

Compressive strength (ASTM C579), 24 hours....11,200 psi (77.2 MPa)
Compressive strength (ASTM C579), 14 days12,150 psi (83.8 MPa)
Bond strength (ASTM C882).....3,650 psi (25.2 MPa)
Tensile strength (ASTM C307).....1,650 psi (11.4 MPa)
Flexural strength (ASTM C580).....3,450 psi (23.8 MPa)
Hardness (Shore D) 90
Water absorption (ASTM D570), 24 hours ..... < 0.5%
BS 8204 abrasion performance, Class Special..... < 0.05 mm

COMPLIANCE/STANDARDS

Guide specification: Epoxy mortar shall be a high-strength, dust-free, three-component, multi-purpose trowelable epoxy mortar equal to SpecChem DuraMortar.

PACKAGING

0.52 cu ft (14.7 L) unit
Component A: 0.83 gal (3.1 L); Component B: 0.42 gal (1.6 L); Component C: one 50 lb (22.7 kg) bag

1.54 cu ft (43.6 L) unit
Component A: 2.5 gal (9.5 L); Component B: 1.25 gal (4.7 L); Component C: three 50 lb (22.7 kg) bags

CLEANING

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

SHELF LIFE

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

LIMITATIONS

Always test a small amount of DuraMortar 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 exposed to continuous UV may amber slightly; broadcast additional Part C aggregate onto the wet mortar and trowel it in to minimize color change.

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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