K-Crete Epoxy MH

Epoxy Manhole Benching Mortar.

DESCRIPTION

K-Crete Epoxy MH is a high strength epoxy lining mortar for the restoration of manhole benching. It can be used as a lining mortar in chemically aggressive situations.

USES

- Manhole benching
- Old and worn concrete
- Offshore and marine environment

ADVANTAGES

- High early strength
- Abrasion resistance
- Compatible with concrete
- Can be applied to steel
- Easy to finish
- Chemical resistant
- Impermeable

PHYSICAL PROPERTIES*

PROPERTY	TYPICAL RESULTS
Solid content by weight	100%
Compressive Strength	>80 MPa
Tensile Strength	>15 MPa
Flexural Strength	>25 MPa
Application Temp	5°C – 35°C
Initial Hardness	6–12Hr
Pot Life @ 25°C	60 Min

*The above properties are average laboratory values

STANDARDS COMPLIANCE.

ASTM C 109, ASTM D 638, ASTM C 580

PACKAING

K-Crete Epoxy MH is available in 16 kg. pack of part A, B and C.

THEORETICAL COVERAGE RATE.

1 m^2@ 8 mm thickness per pack

Actual coverage depends on wastage & surface profile.

SHELF LIFE

12 months when stored in cool dry environment in factory packed unopened containers between 5°C – 25°C.

INSTALLATION GUIDELINES

Kenal provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting the work. The information below is a summary intended for guidance only.

SURFACE PREPARATION

Concrete substrate must be structurally sound. Loose or unsound concrete should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The substrate must be prepared to create a 'key' for bonding by shot blasting or water blasting or by manual methods. Remove all rust from the rebar, if any, and immediately apply **zinc rich primer** onto the full surface of the rebar and allow to dry.

PRIMING

The prepared surface should be primed with epoxy bonding agent. The contents of the hardener should be emptied into the base component and stirred with a spatula until the product appears uniform. The mixed primer should be applied by a stiff brush at 10m^2 per liter. Allow the primer to become tacky free prior to the application of mortar. If the primer appears to absorb into the surface easily, it will be necessary to apply a second coat once the initial coat is tack free.

MIXING

K-Crete Epoxy MH comes in a 3-component ready to mix pack. Under no circumstance should part mixing be allowed. First mix the two liquid components (A & B for 3 minutes, then transfer to a clean suitable mixing container. Add part C slowly while simultaneously mixing with a slow speed drill fitted with a paddle, mix for 5 minutes until a uniform consistency and all fillers are coated. Apply immediately.

APPLICATION

Apply to the tacky primed surface using a steel trowel or by gloved hand and press firmly on position. On vertical surfaces, build up in layers, scratching each layer and allowing it to cure before applying the next layer.

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Each new layer should be primed. Trowel smooth finish with a steel float and a small amount of solvent. Where a more textured finish is required use a plastic or wooden float.

CLEANING

All tools shall be cleaned with solvent as per **K-** recommendation immediately after use. Hardened materials can be removed mechanically only.

PRECAUTIONS

- Do not add any thinner or solvent.
- Do not apply in wet conditions or at temperature below 3°C of the dew point.
- Do not dispose into water drains.

TECHNICAL SUPPORT

Kenal offers full technical support package to specifiers, contractors and end users as well as technical assistance on site and after sales consultations.

HEALTH & SAFETY

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn. See packaging/MSDS for specific instructions.

Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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