

EPICON MORTAR

General Purpose Epoxy Mortar

Description

An extremely versatile solvent free Epoxy Mortar suitable for a number of building and repair needs where characteristics of excellent bond, high strength, abrasion and chemical resistance are required. Ideal for permanent repairs to spalled or damaged concrete. Supplied as a three component Mortar in pre-weighed quantities ready for on-site mixing and use.

Applications

- Repairs to worn or damaged floors, stair nosings and treads.
- Repairs to spalled concrete road slabs, bridge decks etc.
- The production of high strength nosings.
- Repairs to damaged precast units.

Advantages

- High compressive, tensile and flexural strengths.
- Effectively cures in cold damp conditions.
- Grey in colour to match concrete.
- Tolerant to damp surfaces.
- Excellent chemical and water resistance.
- Negligible shrinkage, ideal for large repairs.
- Supplied in containers which act as a mixing vessel.
- Stronger than concrete within 24 hours.

Technical Information

Typical results of compressive strength development given in N/mm². Cubes were tested in accordance with BS 6319 part 2.

	24 hrs	48 hrs	3 days	7 days
5°C	26	59	63	65
10°C	35	64	65	72
20°C	60	68	70	75

Flexural Strength (BS6319:Pt 3):	15 N/mm ² @ 7 days
Secant Module of Elasticity in Flexure:	13.3 GN/m ² @ 7 days
Tensile Strength (BS6319:Pt 7):	8 N/mm ² @ 7 days

Bond strength to clean concrete; when used in conjunction with Epicon Primer Tack Coat 'H' the bond strength will exceed the strength of the concrete.

Pot Life:	45 minutes at 20°C
Yield:	515 cc/kg
Coverage:	2.13 M ² per 25 kg at 6mm
Minimum Thickness:	4mm

Epicon Primer Tack Coat 'H'

Pot Life:	30 minutes at 20°C
Coverage:	4-6 M ² /kg

Surface Preparation

All surfaces should be clean, free from oil, grease and chemical contamination. Oil and grease should be removed by using Desolve. Concrete surfaces should be free from laitance, this should be removed by either scarifying or etching with Chemclean. If etching with Chemclean; once the reaction has ceased the surface should be thoroughly washed with water and allowed to dry. A stronger repair will result if the edges are cut straight with a chisel or a similar tool to avoid feather edging of the material. Steel surfaces should be cleaned by grit blasting or grinding to remove all loose scale and rust. Once clean, the Epicon Primer Tack Coat 'H' should be applied immediately.

Priming

Substrates should be primed with Epicon Primer Tack Coat 'H'. Mix Epicon Primer Tack Coat 'H' in the hardener tin in the proportions supplied by adding the entire contents of the base tin and thoroughly mix. Once mixed this should be brushed well into the prepared substrate. On very porous substrates if the Epicon Primer Tack Coat 'H' is absorbed a second coat should be applied. The primed surface should be covered with Epicon Mortar between 15 minutes and 3 hours after application of the primer tack coat, whilst the primer tack coat is still tacky.

Mixing

It is recommended that a suitable mechanical mixer is used, such as a Daines, Mixal or Hobart. The Epicon Mortar base and hardener should be thoroughly mixed in the base container. This should then be transferred to the mixer bucket and the aggregate added slowly ensuring complete mixing. Mixing should continue for 3-4 minutes.

Application Instructions

If formwork or shuttering is used a suitable silicone or wax release agent should be used to avoid the sticking of the mortar. The mixed materials should be applied to the primed substrate whilst the primer tack coat is still tacky. It should be applied by either a steel trowel or float. The surface can then be brought to the required finish using a steel float after the mortar has been well compacted. Finishing is simplified by keeping the float face clean by wiping with a cloth dampened with Nuwash. On thicker sections the material should be compacted in layers not exceeding 25 mm.

All tools and equipment should be cleaned immediately using Nuwash.

Packaging

Epicon Mortar is packed in 25 kg units (12.87 litre) and 5 kg units (2.56 litre).

Epicon Tack Coat 'H' is packed in 0.25kg and 1.0kg units.

Storage

Epicon Mortar should be stored in cool dry conditions. If stored at temperatures of 10°C or below, the containers should be warmed prior to use as this will greatly aid the mixing procedure. Epicon Mortar should be stored away from foodstuffs and out of the reach of children.

Health & Safety

Epicon Mortar, like similar products, is capable of irritating unprotected skin, we therefore recommend the use of a suitable barrier cream and gloves should be worn.

Limitations

Do not apply below 5°C. In cold conditions and temperatures below 5°C it is necessary to aid curing by the use of tenting and warm air blowers.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



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