

Epoxy Plus

Low Slump Mortar

High build epoxy resin mortar
for vertical and soffit

application

ep. Low Slump Mortar

About this product

Epoxy Plus Low Slump Mortar consists of epoxy resin, hardener and special lightweight aggregates which, when mixed, produces an epoxy mortar of a lightweight thixotropic nature. The mortar has low slump characteristics and so is ideal for repair of damaged concrete on vertical and overhead applications it can be used to repair mullions, soffits, precast units and all spalled or damaged concrete. Because the tendency to slump is reduced, it can be applied in thicker layers than would normally be possible with standard epoxy mortars.

Benefits and features

- Stronger than concrete in less than 24 hours.
- Low modulus material.
- Avoids the use of expensive shuttering.
- Good chemical resistance.
- Impermeable to water and other liquids.
- Reduces the number of layers on thick applications.
- Can be applied in layers up to 75mm thick on vertical faces or up to 30mm deep on soffits.
- Reasonable colour match for concrete.

Typical properties

All tests carried out at 20°C

Compressive strength (BS6319: Part 2)	7 days	50 N/mm ²
Tensile strength (BS6319: Part 7)	7 days	8 N/mm ²
Flexural strength (BS6319: Part 3)	7 days	21 N/mm ²
Modulus of elasticity (BS6319: Part 6)		15kN/mm ²
Density (BS6319: Part 5)		1.35kg/litre

Pot life and cure time

Pot Life:	1 hour at 20°C 35 minutes at 40°C Do not apply below 5°C and above 40°C
Initial Cure:	6 - 16 hours depending on temperature
Full Cure:	2 - 7 days depending on temperature

Application

Surface preparation

As with all repairs and applications it is essential to apply to a clean sound surface free from all grease, oil, dust and loose material.

a) Concrete

Concrete substrates must be adequately prepared either by use of a suitable mechanical method such as scabbling, grit blasting or needle gunning, or by such other means as appropriate to give a clean freshly exposed surface.

Old concrete surface contaminated with oil or grease require suitable preparation such as steam cleaning in conjunction with a suitable detergent. Care must be taken to ensure that the oil or grease is removed from the surface and not simply spread over a larger area.

b) Steel substrates

Steel substrates should first be grit blasted to BS 7079: Part A1 (equivalent to SA2½ quality) followed by degreasing with a suitable solvent immediately prior to bonding. However, in many instances where corrosion is absent, wire brushing to a clean bright surface may be adequate but care must be taken not to simply polish the corrosion.

Priming

Priming is recommended prior to application on all surfaces. Use Epoxy Plus Tack Coat and allow to gel (3-6 hours depending on temperature). It is essential to apply the Low Slump Mortar on to a tacky surface. Where steel is exposed, immediately after cleaning, apply Epoxy Plus Tack Coat blind with coarse dry sand and allow to gel before applying a second coat to the steel and surrounding concrete.

Mixing

Mix the resin and hardener components thoroughly with a mechanical mixer, e.g. Mixal, or a low speed drill and EPI Mixer in a clean plastic bucket, until an even colour and consistency are achieved. Then add the filler slowly, mixing all the time. Do not overmix as this can affect the workability of the material. Full mixing instructions for proportional mixes are given in the instructions on the outer carton.

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Placing

Apply to the tacky primed surface using a steel trowel and press firmly into position. In some cases it may be found most practicable to knead into position by gloved hand.

On vertical surfaces in small, enclosed patches thicknesses of up to 75mm can be applied successfully, but if slumping occurs, proceed by building up in layers, scratching each layer and allowing to harden before applying subsequent layers. Use a priming coat of Epoxy Plus Tack Coat between each layer.

Finishing

Trowel to a smooth finish using a steel float wetted with a small amount of solvent. In some cases a more acceptable match to the surrounding concrete may be achieved by using a plastic or wooden float.

Cleaning

Uncured primer and mortar may be removed with suitable solvent and tools and equipment should be cleaned with this solvent immediately after use.

Packing and yield

Epoxy Plus Low Slump Mortar is supplied in 16kg pack, yield approximately 12 litres.

Shelf life and storage

The shelf life of Epoxy Plus Low Slump Mortar materials is in excess of 12 months if stored in cool, dry conditions.

Health and safety

All skin contact with epoxy resin products should be avoided. Operatives are advised to use barrier creams and protective clothing including gloves and goggles. More detailed information is given on the packs. For further details

on safe handling, please refer to the Product Safe Handling Guide.

The hardener content is alkaline and labelled as corrosive. The resin content is labelled as an irritant. The flash point of all components exceeds 100°C. In the event of fire use

Quality assurance

A policy of strict quality control has always been followed and the requirements of all relevant test standards are strictly adhered to.

Technical service and representation

We can provide technical service at the specification stage and/or during application through our Technical Department or Laboratory. Detail specification or further information can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.



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To the best of our knowledge and belief, the information contained in this leaflet is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Test results shown reflect typical figures based on laboratory testing under

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