

EPICON F.S.

Fast Set Epoxy Mortar

Description

Epicon F.S. is a fast curing, heavy duty three component mortar specifically designed for the repair of concrete surfaces. Ease of mixing, application and rapid strength development enable repairs to be carried out with minimum disruption.

Applications

- Repair of worn and damaged concrete floors.
- Restoration of worn stairs and steps.
- Repair of spalled expansion joints.
- Repair of concrete roads and runways.

Advantages

- Rapid strength development.
- Simple to use and mix. No primer required.
- Resistant to a wide range of chemicals.
- Grey in colour to match concrete.
- Virtually indestructible with excellent abrasion resistance.
- Cures in cold damp conditions.
- Negligible shrinkage with excellent bond strength.
- Provides a non-slip surface.

Surface Preparation

All surfaces should be clean, free from oil, grease and chemical contamination. Oil and grease should be removed by using Desolve.

Although Epicon F.S. may be feather edged a stronger repair will result if the edges are cut straight with a chisel or similar tool. Steel surfaces should be cleaned by grit blasting or grinding to remove all loose scale and rust.

Priming

No priming is required.

Technical Information

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

	3 hrs	4 hrs	6 hrs	24 hrs	3 days
10°C	---	2.5	9	56	87
20°C	18	35	51	79	90

Ultimate Strength:	100 N/mm ²
Yield:	500 cc per kg
Coverage:	25 kg pack will cover 2.5 m ² at 5 mm thickness
Pot Life:	90 mins @ 10 °C 50 mins @ 20 °C
Bond Strength:	The bond strength will exceed the strength of concrete when applied to a clean surface.

Mixing

This may be carried out by hand using a trowel for the small pack (5 kg) but it is recommended that a forced action mixer is used for mixing the larger pack (25 kg). The Epicon F.S. hardener should be added to the base component and thoroughly mixed until a uniform colour results. The contents should be transferred to the mixer bucket and the aggregate added slowly ensuring complete mixing.

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. Once mixed the Epicon F.S. should be applied by either a steel trowel or float, working the mortar into the substrate to ensure maximum distribution of the resin/hardener. The surface can be then 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 25mm. All tools and equipment should be cleaned immediately using Nuwash.

Packaging

Epicon F.S. is packed in 25 kg units (12.50 litre) and 5 kg units (2.50 litre).

Storage

Epicon F.S. should be stored at normal room temperature. If stored below 10 °C the containers should be warmed prior to use as this will greatly aid the mixing procedure.

Epicon F.S. should be stored away from foodstuffs and out of the reach of children.

Health & Safety

Epicon F.S., 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 2°C.

In cold conditions and temperatures below 2°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.