

EPIBEAR

Epoxy Bearing Mortar

Description

Epibear is a three component mortar system consisting of epoxy resin, hardener and specially blended aggregates in pre-weighed quantities ready for site use, which quickly cures even at low temperatures to form an exceptionally strong bearing for bridge bearing pad levelling plinths and other load bearing applications.

Advantages

- Develops high compressive, flexural and tensile strengths.
- Cures fully at temperatures above 5°C.
- No solvent content results in negligible shrinkage.
- Tolerant to damp surfaces and will cure even in adverse conditions.
- Early development of initial strength.
- Excellent chemical resistance.

Technical Information

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

	24 hrs	48 hrs	3 days	7 days	28 days
5°C	56	61	66	71	78
20°C	75	81	83	85	90

The compressive strength can vary depending on the compacted cube density. Typical density 2050 to 2150 kg/m³.

Note: If in doubt on how to make and cure test specimens, please contact our Technical Department.

Bond Strength: Adhesion to clean concrete when used in conjunction with Epicon Primer Tack Coat 'H' exceeds the strength of the concrete.

Pot Life:	45 minutes at 15°C
Yield:	464 cc/kg
Coverage:	1.39 M ² per 18 kg at 6mm
Minimum Thickness:	4mm

Epicon Primer Tack Coat 'H'

Pot Life:	30 minutes at 15°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. 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

Epicon Primer Tack Coat 'H' should be used. Mix Epicon Primer Tack Coat 'H' in the proportions supplied by adding the entire contents of the hardener tin to the contents of the base tin and thoroughly mix. Once mixed this should be brushed well into the prepared substrate. The primed surface should be covered with Epibear between 15 minutes and 3 hours after application of the primer tack coat, whilst the primer tack coat is still tacky.

Mixing

The Epibear base and hardener components should be thoroughly mixed in the base container. In cold conditions it will greatly aid mixing if the materials are stored in warm conditions.

Once the base and hardener are thoroughly mixed they should be transferred to a suitable forced action mechanical mixer such as a Creteangle or Daines and the aggregate added, mix thoroughly for 3-4 minutes until a homogeneous mix is obtained.

Application Instructions

Any surfaces that do not require Epicon Primer Tack Coat 'H' or Epibear to adhere, must be treated with a suitable wax or silicone release agent.

The mixed material should be applied to the primed substrate whilst the primer tack coat is still tacky, 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.

Where thicknesses of over 25mm are involved the material should be compacted in 25mm thick layers. The top surface should be roughened to provide a mechanical key. It is not necessary to allow the compacted layer to cure before proceeding with the next layer.

All tools and equipment should be cleaned immediately using Nuwash.

Packaging

Epibear is available in 18kg units (8.35 litre) and 6 kg units (2.78 litre).

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

Storage

Epibear should be stored at normal room temperature. If stored in cold conditions the containers should be thoroughly warmed prior to use as this will greatly aid the mixing procedure. Epibear should be stored away from foodstuffs and out of the reach of children.

Health & Safety

Epibear, like similar products, is capable of irritating unprotected skin. We therefore recommend the use of a suitable barrier cream and that gloves be worn.

Limitations

Do not apply below 5°C.

In cold conditions and temperatures below 5°C curing can be aided 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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