

EPOSEAL CURE HARD

Epoxy Sealer and Primer

Description

EPOSEAL CURE HARD is an easily applied sealer and surface hardener for treating both new and old concrete and cement bonded surfaces such as concrete floors, granolithic paving and sand/cement screeds. Typical areas of use include factories, garages, dairies, abattoirs, chemical plants, etc. EPOSEAL CURE HARD can also be used as a primer/sealer to porous concrete prior to the application of the EPO range coatings.

The product consists of a blend of flexible epoxide resin in a specially blended organic solvent producing a colourless, low viscosity penetrating sealer, which acts by impregnating the surface rather than by the formation of a surface membrane.

When applied, EPOSEAL CURE HARD will reduce the permeability of the substrate effectively improving the floors resistance to the ingress of water, oil, petrol, weak acids and alkalis. The floor will also show excellent resistance to abrasion and dusting resulting in lower maintenance costs.

The use of a flexible epoxide resin allows an elastic lining to form in the pores of the concrete which permits internal thermal movement without disruption of the treatment allowing it to be used for both internal and external applications.

Technical Data

Colour:	Pale straw (colourless after application)
Specific Gravity (g/cm ³):	0.9
Flash Point (°C):	>28
Curing Time @ 20°C:	2 days
Application Temperature Range (°C):	5 to 30
Operational Temperature Range (°C):	-20 to 40
Pot Life @ 20°C:	10 hours

Coverage

Coverage is very much dependent on the porosity of the substrate.

a) New Concrete: typical application rate is 5 m²/litre (one coat): a second coat is recommended under fast drying ambient conditions.

b) Old Concrete: for smooth, power floated concrete, the typical application rate is: 8 - 9 m²/litre (1st coat) 11 -12 m²/litre (2nd coat) i.e. overall rate = 4.6 - 5.1 m²/litre (two coats) If an anti-slip finish is required, apply only 1 coat of EPOSEAL CURE HARD at a rate of 5 m²/litre. Textured and tamped finishes reduce the coverage rate achieved.

NB: It is strongly recommended that a small test application be carried out to determine the precise coverage rate for each specific job, prior to any large scale application being started.

Surface Preparation

The surface must be structurally sound, clean, dry, and free from oil, grease and other forms of contamination. Following cleaning, the surface should be allowed to dry out thoroughly in order to achieve maximum absorption of the EPOSEAL CURE HARD. New concrete should be fully cured and allowed to dry out prior to treatment.

Mixing

EPOSEAL CURE HARD comprises two components, a resin BASE and a HARDENER which are supplied pre-weighed in the correct proportions. Under no circumstances should part mixing be carried out. Taking care to ensure that the bottom and sides of the containers are thoroughly drained, transfer the entire contents of the Resin and Hardener into a metal bucket and thoroughly mix preferably using a mechanical stirrer for approx. 2 minutes until a uniform colour and consistency is achieved. EPOSEAL CURE HARD is solvent based, therefore the use of properly spark guarded equipment should be used together with adequate ventilation.

Application

EPOSEAL CURE HARD should be poured onto the prepared surface and spread evenly avoiding the formation of puddles. Further material should be applied until the surface is saturated and will no longer absorb any more liquid. Surplus material should be removed. A second application should be made in a similar manner 12 - 24 hours after application of the first coat. If necessary a third coat may be applied on very porous surfaces. To determine the correct coverage rate, a small test area should be treated before large-scale applications. When used as a primer/sealer for other CEMART coatings, the surface should be allowed to dry for a minimum of 16 hours prior to overcoating.

Cleaning

Once mixing and application are complete, tools can be CEMART SOLVENT.

Curing Time

At 20°C, EPOSEAL CURE HARD should be allowed to cure for 24 hours before being subjected to foot traffic. At the same temperature EPOSEAL CURE HARD should be allowed to cure for 48 hours prior to opening it to vehicular traffic. Full mechanical and chemical properties are achieved after 7 days.

Working Conditions

The area should be well ventilated to allow efficient evaporation of the solvent, particularly at temperatures below 10°C. A No-Smoking policy should be adopted.

Health and Safety

Avoid contact of the material with skin and eyes. Wear appropriate gloves, overalls and eye protection during use. Please refer to material Safety Data Sheet for additional information. For specific advice regarding any aspect of this product, please consult our Technical Department.

General Guidance

This Data Sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department. Please consult our Sales Department to confirm that this Data Sheet is the current issue