

DENSO HB80 PRIMER

High Performance Epoxy Binder System

Description

Denso HB80 Primer is a two-part, solvent-free epoxy resin binder system to be used prior to application of Denso HB80 High Strength Mortar.

Uses

Primer for Denso HB80 High Strength Epoxy Mortar. Can be used on vertical or horizontal surfaces. Seals cracks in concrete.

Features

- Suitable for use on damp concrete
- 100% solids epoxy
- High tensile and compressive strength
- High adhesive bond strength with concrete
- Excellent chemical resistance

Application

Prepare surfaces by removing any dust, unsound material, plaster, oil, grease, paint, corrosion deposits or algae. Roughen the surface and remove any laitance. Expose the aggregate by light scabbling or grit-blasting.

All anchor bolt holes must be free of water and debris prior to placing of Denso HB80 Primer. Steel surfaces, such as reinforcement bars, should be grit-blasted or scabbled to remove any corrosion deposits.

Mix ratio is 2:1 (A:B) by volume. The entire contents of the hardener (Part B) to be poured into the base (Part A) and thoroughly mixed using a suitable slow-speed drill and high shear mixing paddle. Mix for two minutes until uniform colour is achieved. Scrape sides of the tin and mix for further 2 minutes. Do not over mix as this may incorporate air bubbles.

Denso HB80 Primer to be brush, spray or roller applied immediately to prepared surface following mixing. Apply evenly over the substrate. Ensure that the primer is tacky prior to the application of Denso HB80 High Strength Repair Mortar. If the primer has cured and is touch dry, DO NOT apply repair mortar. Re-apply a second coat of Denso HB80 Primer and allow to reach tacky consistency before applying Denso HB80 High Strength Repair Mortar.

Expected coverage from brush or roller application is 5 - 7 m²/L. Coverage may vary according to the porosity and texture of the substrate.



Denso HB80 Primer

PROPERTY SPECIFICATIONS

PROPERTIES	VALUE
Viscosity	300 cP
Appearance	Clear amber liquid (unmixed)
Specific gravity	1.1 kg/L
Solid content	100%
Tensile Strength	45 MPa
Tensile Bond Strength	15 MPa approx.
Compressive Strength	100 MPa
Flexural Strength	50 MPa
Heat Distortion Temperature	90°C (approx.)
Water absorption	< 0.20% (10 days at 25°C)
Pot life	25-35 minutes (25°C)
Modulus of Elasticity	11 x 10 ³ MPa (approx.)
Hardness	>80 Shore D
Chemical Resistance (to spillage)	
Citric acid, acetic acid (5%), sodium hydroxide 30%, diesel fuel/petrol	Excellent
Sugar solution, tartaric acid, hydrocarbons, phosphoric acid	Very good
Service Temperature	-20°C to +70°C
Application Temperature	5°C to 30°C*

*Low temperature application: the minimum application temperature is 5°C. In temperatures below 10°C, separate components should be heated in warm water (up to 25°C) or stored in a temperature controlled environment for 12 h before use.

*High temperature application: at ambient temperature above 30°C, the material should be stored in shade or in an air-conditioned environment for 12 h before use.

DO NOT dilute the Denso HB80 Primer with solvents.



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