

DENSO EPOXY S™

Fluid Epoxy Grout, High Strength, High Performance

Description

Denso Epoxy S is a two component, high performance, pre filled epoxy grout, suitable for use as a pourable or fluid grouting material. Fillers may be added to produce a trowellable high build mortar or a pourable flowable grout.

Uses

Used for grouting heavy duty supports beneath crane and transporter rails; anchoring bolts, bars and fixings; bonding new to old concrete; adhesive promoter; filling holes and cavities; repairing cracks in horizontal surfaces; grouting off column bases; as a protective coating for concrete and steel structures; reinforcement bar primer; corrosion protection on steel reinforcement prior to application of concrete repair mortar.

Features

- 100% solids epoxy
- High flow properties
- Negligible Shrinkage
- Bonds to damp substrates
- Rapid hardening and strength gain
- High tensile and compressive strength
- Grouting from 5 mm to 120 mm in a single application
- Excellent chemical resistance

Application

Clean surfaces and remove dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surface and remove laitance and expose aggregate by light scabbling and grit blasting. Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of degreaser. All residual water must be removed; the substrate may be moist but not wet. All anchor bolt holes must be free from water and debris prior to placing of Denso Epoxy S. Steel surfaces such as reinforcement bars should be grit blasted or scabbled to remove any corrosion.

Ensure that Denso Epoxy S is thoroughly mixed. The hardener and base components should be stirred separately before mixing to disperse any settlement. The entire contents of the hardener (Part B) tin should then be poured into the base (Part A) tin and the two materials thoroughly mixed using a suitable slow speed drill and high shear mixing paddle. Mix for 2 minutes until fully uniform colour is obtained, the sides of the tin should be scraped, mixing should continue for a further 2 minutes. To facilitate mixing and application at temperatures below 10°C, the separate components should be warmed in hot water up to a maximum temperature of 25°C before beginning to mix. If heated to 25°C, the subsequent mixed material will need to be used more speedily as the pot life will be reduced. Alternatively, the material should be stored in an environment controlled to 20°C and only removed immediately before use. At ambient temperatures above 30°C, the material should be stored in the shade or in an air-conditioned room for 12 hours before use.



Denso Epoxy S™

TECHNICAL DATA

PROPERTIES	VALUE
Colour	Grey (mixed)
Total Solids	100%
Mix Ratio	4:1 (A:B) by volume
Density	1.6 kg/L
Viscosity	Flowable, pourable
Coverage	1 L/m ² (applied @ 1 mm thick)
Coverage (Bonding Concrete)	4 - 5 L/m ²
Setting Time @ 25°C (40 mm x 40 mm cubes)	33 MPa (1 h), 77 MPa (3 h), 100 MPa (6 h)
Test Method: AS 1478.2 - typical properties after 7 day cure at 25°C, 50% RH	
Tack-free Time	50 mins @ 25°C
Pot Life	25-30 minutes @25°C
Full cure	7 days @ 25°C
Compression Strength	119 MPa
Flexural Strength	30 MPa approx.
Tensile Strength (Flexural)	30 MPa approx.
Tensile Bond Strength (Indirect)	80 MPa approx.
Slant Shear Bond Strength	40 MPa (substrate failure)
Modulus of Elasticity	14 GPa
Hardness	>80 Shore D
Water Absorption	<0.2% (10 days @ 25°C)
Heat Distortion Temperature	80°C approx.
Application Temperature	5°C - 35°C
Service Temperature	-10°C to -65°C
Product Size	15 L kit

NOTES: When mixed in volumes greater than 10 L, product is likely to cure faster, reducing the pot life of the mixed material in the tin. Only use as much product as can be used within pot life. Do not dilute with solvent.

SHELF-LIFE: Minimum 2 years in original, unopened container.

STORAGE: Store between 5°C and 35°C in a cool, dry area and away from heat and direct sunlight.

CLEANING: Clean equipment immediately after with solvent. Cured Denso Epoxy S is difficult to remove via chemical means and mechanical means may be necessary.

HEALTH AND SAFETY: Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes.



DENSO (AUSTRALIA) PTY LTD
77 - 95 National Boulevard
Campbellfield, VIC 3061
Tel: +61 3 9356 7600
Fax: +61 3 9356 7699

www.densoaustralia.com.au

A Member of the Winn & Coales International

The information given on this sheet is intended as a general guide only and should not be used for specification purposes. We believe the information to be accurate and reliable but do not guarantee it. We assume no responsibility for the use of this information. Users must, by their own tests, determine the suitability of the products and information supplied by us for their own particular purposes. No patent liability can be assumed.