

DENSO-RAMIC

Chemical and Abrasion Resistant, Trowelable Lining

Description

Denso-ramic is a two component epoxy based system with abrasive resistant additives. It is a tough, wear and erosion resistant, trowelable ceramic lining system that is applied as a coating for chemical and mechanical resistance.

Uses

Mitigates the effects of abrasive materials.

Used on wear lining for chutes, bins, pipe lines and elbows, screen under pans or sub-frames, screen discharge lips and mechanism tubes, centrifuges, flotation launders and cells, media vessels, tanks or tank impellers, dust extractors, pumps, etc.

Features

- 100% solids content
- Excellent resistance to aqueous environments
- Excellent chemical and abrasion resistance
- Intermittent service temperature up to 110°C (dry) or 90°C (immersed)
- Excellent resistance to hydrolysis, ageing and micro-organism attack
- Resistant to mild acids and alkalis. Strong acids and alkalis should be pretested.
- Compatible with metals, timber, concrete and masonry
- Compatible with some plastics (adhesion pretesting is recommended)

Application

Ensure any loose flaky material is removed and the surface is free of dust, oil and grease. To remove dust and grit simply hose or wash off with water. Use a suitable solvent to degrease surface. Grit blasting of steel is not usually needed as Denso-ramic will adhere to corroded or moist surfaces.

Open the Base (Part A) container and gently mix the contents with a trowel or spatula. Use the Part A container as the mixing vessel. Add the contents of the Cure (Part B) to the Part A container. Mix the two components well for about 3 minutes, until a homogeneous colour is achieved. A noticeable rise in mixture temperature indicates that curing is commencing at which point application and handling should be finalised.

Use a steel plasterer's trowel or similar to apply to the surface as you would for mortar or plaster. Recommended thickness is 5 mm and minimum thickness is 2 mm.

The consistency of Denso-ramic is heavier than mortar or plaster, so it will not flow as readily and hence will be harder to work.

After application, lubricate a clean trowel with water, preferably containing a small amount of household detergent, and smooth the surface to a glass like finish.



Denso-ramic

TECHNICAL DATA

PROPERTIES	VALUE
Solids Content	100%
Mixed Density @ 25°C (ASTM D1475)	1.86 kg/L
Tensile Strength (ASTM C190)	22 MPa
Elongation (ASTM C190)	2.4%
Flexural Strength (ASTM D790)	22 MPa
Compressive Strength (ASTM D695)	≥ 60 MPa
Shore D Hardness (ASTM D2240)	> 40 Duro
Linear Shrinkage (ASTM C531)	0.1%
Vertical Sag Resistance @ 21°C (≤ 3mm thickness) (ASTM C639)	100%
Pot Life at ambient temperature	45 min to 120 min (temperature dependant)
Cure time at ambient temperature	8 h to 12 h (temperature dependant)
Theoretical Coverage	0.85 m ² /kit at 5 mm recommended thickness
Minimum Thickness	2 mm
Chemical Resistance @ 21°C (ASTM G20, 30 days)	
Chlorinated solvent	Pass
Diesel Fuel	Pass
Methane	Pass
Petrol	Pass
Toluene	Pass
Xylene	Fail
MEK	Pass
10-50% NaOH	Pass
10% HCl	Pass
10% NaCl	Pass
10% NH ₃ OH	Pass
Abrasion Resistance	Excellent
Application Temperature	10°C to 26°C (product temperature)
Continuous Service Temperature	-20°C to 90°C
Intermittent Maximum Service Temperature	110°C (dry), 90°C (immersed)

STORAGE: Minimum 24 months when stored in Original containers. Store in a cool, dry area away from heat and direct sunlight in tightly sealed containers.

CLEANING: Clean equipment with methylated spirits, acetone or equivalent solvent cleaner.

HEALTH AND SAFETY: Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See safety data sheets for further information.

PACKAGING: 4.3 L kits (8.0 kg)



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