

Technical Data Sheet

Denso-Ramic

- Description:** Denso-ramic is a tough, wear and erosion resistant, trowelable ceramic lining system that is applied as a coating offering good mechanical and chemical resistance.
- Composition:** A two-component epoxy-based system with abrasive resistant additives.
- Characteristics:**
- 100 % solids content
 - mixing ratio 1:1, A:B by weight
 - excellent resistance to aqueous environments
 - excellent chemical and abrasion resistance
 - Pot Life: ¾ - 2 hours, dependent on ambient temperature
 - Cure Rates: 8 to 12 hours, dependent on ambient temperature
 - theoretical coverage rate: 0.85 m²/ kit at 5mm thickness
 - excellent resistance to hydrolysis, ageing, and micro-organism attack
 - resistant to mild acids and alkalis.
 - strong acids and alkalis should be pre-tested
 - compatible with metals, concrete and masonry, timber
 - compatible with some plastics (adhesion pretesting is recommended)
- Uses:** 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 and tanks or tank impellers, dust extractors pumps etc.
Used to mitigate the effects of abrasive materials.

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Surface Preparation & Application:

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

Use a steel plasterer's trowel or similar to apply to the surface as you would mortar or plaster. Be aware the consistency of Denso-ramic is heavier than mortar or plaster so it will not flow as easily hence it will be harder to work.

When you have applied your mixed product lubricate a clean trowel with water, preferably containing a small amount of household detergent, and smooth the surface to a glass like finish.

Use the Base (part A) container as your mixing vessel. Open the Base container and gently mix the contents with a trowel or spatula. Open the Cure (part B) container and add the contents to the Base 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 quickly finalised. Equipment can be cleaned with methylated spirits, acetone or hot soapy water. Take care when handling flammable cleaning solvents.

Recommended Temperatures:

Application: + 10 to + 26 °C product temperature
Service: - 20 to + 90 °C
Peak: + 110 °C dry, 90 °C immersed

Shelf Life:

≥ 24 months when stored in original containers.

Storage:

Store in a cool, dry area away from heat and direct sunlight in tightly sealed containers.

Dimensions:

DENSORAMIC	4.3L Kit
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Physical Properties:

Test	Test Methods	Units	Value
Density @ 25°C	ASTM D1475	kg/L	1.86
Flash Point	ASTM D92	°C	> 200
Tensile Strength	ASTM C190	MPa	22
Elongation	ASTM C190	%	2.4
Flexural Strength	ASTM D790	MPa	22
Compressive Strength	ASTM D695	MPa	≥ 60

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Physical Properties:
(continued)

Test	Test Methods	Units	Value
Shore D Hardness, Type D2	ASTM 2240	Duro	> 40
Linear Shrinkage	ASTM C531	%	0.1
Vertical Sag Resistance @21°C (≤ 3mm thickness)	ASTM C639	%	100
Chemical Resistance @21°C	ASTM G20 (30 days)	-	
Chlorinated Solvent			Pass
Diesel Fuel			Pass
Methane			Pass
Petrol			Pass
Toulene			Pass
Xylene			Failed
MEK			Pass
10 – 50% NaOH			Pass
10% HCl acid			Pass
10% NaCl			Pass
10% NH ₃ OH			Pass