



Approved Quality  
Management System  
AS/NZS ISO 9001:2008  
Lloyds Register-Certificate  
No. MEL 0927759

## Technical Data Sheet

# 302 EPOXY MORTAR

<b>Description:</b>	Denso 302 Epoxy Mortar is a heavy duty repair and screeding system for hard wearing areas. The system bonds to damp surfaces and cures under water.
<b>Composition:</b>	A 3 component system consisting of blended Epoxy resins, amine activator and aggregate.
<b>Characteristics:</b>	<ul style="list-style-type: none"> <li>• natural grey colour, 100% solids content</li> <li>• salt and seawater resistant</li> <li>• resistant to most dilute acids/alkalis and petroleum products.</li> <li>• coverage rate 1 m<sup>2</sup>/L per mm coating thickness</li> <li>• pot life @25°C: 40 minutes</li> <li>• cure times @25°C: dry - 8 hours, light traffic - 24 hours, full cure - 7 days</li> <li>• will cure under cold and damp conditions</li> </ul>
<b>Uses:</b>	<p>Primer for substrate linings such as polyurethanes, polyesters and epoxides on damp or green concrete.</p> <p>Can be applied to substrates such as steel, concrete, fibreglass, wood, asbestos cement, ceramic tiles and most other building materials.</p>
<b>Surface Preparation &amp; Application:</b>	<p>The substrate must be clean and mechanically sound, free of all foreign material, including oil, dirt, rust, laitance or other surface contaminants. All loose material must be removed.</p> <p>Abrasive blast or acid etch substrate to remove laitance. Any concrete and cement screeds to preferably have a wood float finish with a minimum compressive strength of 25 MPa.</p> <p>The epoxy resin can be used on its own as a primer at a surface coverage rate of 5 m<sup>2</sup>/L.</p> <p>Thoroughly mix the resin and activator in the proportions given then add the aggregate using a slow speed mechanical mixer.</p> <p>Pour and spread the mixture onto the floor to be coated to slow down the exothermic reaction and maximize the working pot life of the mortar.</p> <p>Using a screed bar apply the epoxy screed to a nominal thickness of 6mm using a nylon or PVC float. Keep wiping the float with xylene.</p> <p>Allow to cure for at least 12 hours then seal with Denso sealer.</p> <p>Allowance must be made for expansion joints.</p> <p>Denso also supplies a range of non shrink epoxy grouts for machine bedding, bolt fixing, vertical surfaces and under water curing systems.</p>
<b>Recommended Temperatures:</b>	<p>Application: + 10 to + 40 °C</p> <p>Service: - 20 to + 80 °C</p> <p>Peak: + 80 °C</p>
<b>Shelf Life:</b> <b>Storage:</b>	<p>≥ 12 months when stored in original containers.</p> <p>+ 10 to + 40 °C Store in a dry area away from heat and direct sunlight.</p>
<b>Available Sizes:</b>	12 Litre kits (28 kg), consisting of 2 L resin, 1 L activator, 25kg aggregate.



Approved Quality  
Management System  
AS/NZS ISO 9001:2008  
Lloyds Register-Certificate  
No. MEL 0927759

## Technical Data Sheet

### **302 EPOXY MORTAR**

<b>Physical Properties:</b>	<b>Test</b>	<b>Test Method</b>	<b>Units</b>	<b>Value</b>
	Density	ASTM D1298	kg/L	2.33
	Compressive Strength	ASTM D695	MPa	96
	Flexural Strength	ASTM D790	MPa	34
	Tensile Strength	ASTM D638	MPa	18
	Bond Strength	ASTM D7234	-	concrete fails

<b>Precautions:</b>	<p>Handle as per conventional epoxy resin systems. Avoid direct contact with system components. Wear safety glasses and gloves. For contact with eyes, immediately flush with water for at least 15 minutes and seek medical attention. Keep out of reach of children. Adhere to recommendations in any available safety data sheets, product labels and technical literature.</p>
---------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------