

# Megapoxy

#### **Technical Data Sheet**

#### Heavy Duty Epoxy Ceramic Coating

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DESCRIPTION	Megadure Ceramic Coating is a two component, ceramic sphere filled, 100% solids, high build, highly chemically resistant and heavy duty wear coating, suitable for a variety of commercial and industrial applications where high wear can be expected. Suitable for floor, wall and steel protection applications. Megadure Ceramic Coating provides a hygienic, dust free coating with heavy abrasion resistance. Megapoxy LVS can be used in conjunction with Megadure Ceramic Coating as a primer when used on porous surfaces to aid in increase adhesion. Megadure Ceramic Coating can be applied by using a roller, brush, squeegee or trowel.	
RECOMMENDED APPLICATIONS	<ul> <li>Protectice coating for concrete and steel</li> <li>Plant rooms &amp; machine rooms</li> <li>Car parks &amp; ramps</li> <li>Steel Beds</li> <li>Pipes</li> <li>Mechanical Workshops</li> </ul>	<ul> <li>Factory &amp; warehouse floors</li> <li>Mechanical workshop floors</li> <li>Housings &amp; tanks</li> <li>Chutes</li> <li>Chemical Storage Tanks &amp; Bunds</li> <li>Sweage Treatment Planst &amp; Pipes</li> </ul>
PROPERTIES	Mixing Ratio by Volume Mixing Ratio By Weight Work Time at 25°C Tack Free Time At 25°C Recoat Time at 25°C Minimum Cure Time At 25°C Minimum Cure Time At 35°C	3 Part A to 1 Part B 4 Part A to 1 Part B 30 minutes 2 hours 4 hours 24 hours 12 hours
	Minimum Application Temperature Coverage - 5kg Kit Coverage - 5kg Kit Maximum Operating Temperature Colour Part A Colour Part B	10°C 20 - 25m <sup>2</sup> 80 - 100m <sup>2</sup> 100°C Grey Clear
CURED PROPERTIES	Compressive Strength - ASTM 695 70Mpa Bond Strength Concrete - ASTM 454 >3Mpa Tensile Bond Strength Steel - ASTM 1002 13Mpa Modulus of Elasticity - ASTM 695 2.4Gpa Tensile Strength 30Mpa Hardness - Barcol 935 80	70Mpa >3Mpa 13Mpa 2.4Gpa 30Mpa 80

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CHARACTERISTICS	<ul> <li>VOC Free</li> <li>Pre-metered easy to use kit</li> <li>Easily mixed by hand or mechanically</li> <li>Great Coverage</li> <li>Can be applied by brush, roller, squeegee</li> <li>High Wear Resistance</li> <li>Excellent tensile and compressive strengths, superior to concrete</li> <li>Excellent chemical resistance</li> <li>Gloss finish</li> </ul>
SURFACE PREPERATION	Concrete
	Concrete should be free from grease and oil. If necessary, clean with industrial heavy duty degreaser. When clean, remove surface laitance. This is best done by mechanical abrasion such as scabbling, grit blasting or grinding. If this is not possible acid etching must be carried out. Mix concentrated hydrochloric acid with equal volume of water and spread at the rate of 0.5 litre per square meter of concrete surface. Allow to react for about 10 minutes and wash the area thoroughly and scrub with a stiff bristled broom to remove loose sand. Allow to dry for 24 hours. For maximum adhesion the concrete should be surface dry.
	Metal Surfaces
	Metals should be grit blasted to AS CK 9.4 - 1964 Class 3 finish. If this is not possible, mechanically abrade the surface to a clean, bright metal surface. Once this abrasion is complete, degrease the surface by flooding with an industrial grade degreaser. Wire brushing is not entirely satisfactory and gives minimal adhesion only.
	Coated Surfaces
	It is recommend to remove all coatings prior to bonding, bonding to coated surfaces will give inferior bond strengths compared to bonding directly to a prepared substrate.
	Concrete:
	The surface may be either flame-cleaned, or mechanically treated with a scutching tool, to remove all traces of paint. Complete the preparation by diamond grinding or scabbling.
	Metals:
	Steps should be taken to remove all paint and/or galvanizing. Good quality paint stripper should be used, followed by grit blasting or grinding to a bright metal finish.
MIXING PROCEDURE	Add the entire contents of Part B into the Part A tin, there is enough space to combine both parts in the Part A container.
	Megadure Ceramic 5kg kits
	Mix the two parts together thoroughly for a minimum of 2 minutes, by hand or using a mechanical stirrer on a low speed of 200rpm or lower, making sure to scrape the base and corners of the drum, after 2 minutes, scrape the side of the drum and mix for a further 1 minutes.
	Set a timer do not guess the time.

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APPLICATION	It is recommended that Megapoxy LVS - Low Viscosity Sealer is used as a primer on particularly porous surfaces before the application of Megadure Ceramic Coating. Megapoxy LVS can be applied either by roller, brush or spray equipment at a rate of 8-10m <sup>2</sup> per litre. Single coat application of Megapoxy LVS is generally all that is required and thinning is not recommended. Recoat or overcoat approximately between 8 – 24 hours after application of Megapoxy LVS. If more than 24 hours elapses between coats, it is necessary to thoroughly abrade the coated surface to a uniform dull finish using 60 grit abrasive paper.
IMPORTANT INFORMATION	It is essential that the correct mixing ratio be used and that the Part A and Part B are thoroughly mixed together before use. Inaccuracies and poor mixing will result in lower physical properties of the cured system and, if the error is sufficiently large, the system may not cure satisfactorily and discolour on ageing.
CLEANING	To keep mixing implements and working tools clean, use Megapoxy Thinners. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene. For further details refer to the Megadure Ceramic Coating Safety Data Sheets.
PACKAGING	Megapoxy Ceramic Coating available in 5kg kits. Product should be stored in cool dry store.
TECHNICAL SERVICE	All purchasers of Megapoxy Products, are encouraged to avail themselves of our Technical Service for our Megapoxy Products. The information in this Bulletin is correct at time of publication, however continual research and development is being carried out and specs may change without notice.

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