Megapoxy

132

High Strength Epoxy Coating

Technical Data Sheet

DESCRIPTION

Megapoxy 132 is a two component, solvent free, low viscosity protective floor coating suitable for a variety of commercial and industrial applications. With the inclusion of Coloured Pigment Megapoxy 132 floor coating provides a decorative surface finish with aesthetically pleasing appearance, high strength, abrasion resistance and serviceability to allow regular cleaning. AS 4020:2018 Potable Water Approved

Megapoxy 132 is free from any suspected or potential carcinogens or mutagens and will not taint foodstuffs. Megapoxy 132 conforms to the requirements of the Department of Primary Industries for coatings and floorings used in food processing establishments such as abattoirs for export purpose.

Megapoxy 132 has low volatile organic compounds and is suitable for coating and protecting structures that are in contact with foodstuffs and potable water.

RECOMMENDED APPLICATIONS

- Food and Beverage Production Facilities
- Pharmaceutical Industries
- Hospital and Catering Kitchens
- Showrooms
- Factory and Warehouse Floors
- Bakeries and Cafe's
- Bathrooms
- Forklift Ramps and Driveways

PROPERTIES

Mixing Ratio by Volume	2 Parts A to 1 Part B
Work Time at 25°C:	30 minutes
Minimum Cure Time at 15°C	48 hours
Minimum Cure Time at 25°C	24 hours
Minimum Cure Time at 35°C	12 hours
Thin Film Cure at 25°C	4-6 hours at 25°C
Minimum Application Temperature	10°C
Viscosity Part A at 25°C	1300 – 1900cps
Viscosity Part B at 25°C	130 – 160cps
Mixed Viscosity at 25°C	620cps
S.G. Part A at 25°C	1.12 – 1.14
S.G. Part B at 25°C	0.97 – 0.99
Mixed S.G. at 25°C	1.08
Colour Part A	Clear or N35 Grey
Colour Part B	Clear
Colour Mixed	Clear or N35 Grey

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CURED PROPERTIES

Yield Compressive Strength - ASTM C579	59MPa
Utimate Compressive Strength - ASTM C579	120MPa
Bond Strength Concrete - ASTM D4541	>3MPa
Tensile Bond Strength Steel - ASTM D897	14MPa
Modulus of Elasticity - ASTM C579	0.068GPa
Flexural Strength - ASTM D790-17	81MPa
Tensile Strength - ASTM D638	50MPa
Tensile Lap Shear Strength - ASTM D1002	8MPa (steel to steel)
Hardness - Shore D - ASTM D2240-00	75
Dielectric Strength (kV/mm)	35
Surface Resistivity (Ohm) - ASTM D257	10^{12}
Volume Resistivity (Ohm.cm)	8.5×10^{10}
VOC (g/l) - ASTM D3960	7
Water Vapour Transmission - ASTM E96/E96M	0.000 (gram/hr m^2)
Water Absorption - ASTM D570	0.225 Increase in weight (%)

CHARACTERISTICS

- Low VOC
- Simple 2:1 mix ratio
- Easily mixed manually or mechanically
- Can be applied by brush, roller, squeegee or airless spray
- Can be used with fine aggregates to make screed floors
- Accepts fine aggregates broadcast between coats for non-slip
- Excellent tensile and compressive strengths, superior to concrete
- Excellent chemical resistance
- High gloss finish

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SURFACE PREPARATION	**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 1627.2.2002. 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.
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 Megapoxy 132 Safety Data Sheet.
PACKAGING	Megapoxy 132 is available in 4.5lt, 15lt & 30lt kits in clear, it is also available in N35 Grey in 30lt 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.