

# MEGAPOXY 132

## HIGH STRENGTH FLOOR COATING

### 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.

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 is volatile organic compounds free (Nil V.O.C.) and is suitable for coating and protecting structures that are in contact with foodstuffs and potable water.

### APPLICATIONS

Food and Beverage Production Facilities	Factory and Warehouse Floors
Pharmaceutical Industries	Bakeries
Hospital and Catering Kitchens	Forklift Ramps and Driveways

### PROPERTIES UNCURED

Mixing Ratio by Volume	: Part A - 2 Parts
	: Part B - 1 Part
Pot Life (1 litre mix)	: 30 minutes at 25°C
Cure Time	: 48 hours at 5°C
	: 36 hours at 15°C
	: 24 hours at 25°C
	: 12 hours at 35°C
Tack-free time (thin film initial cure)	: 8 hours at 15°C
	: 6 hours at 25°C
	: 3 hours at 35°C

### MIXING PROCEDURE

Measure out 2 volumes of Part "A" and 1 volume of Part "B". Place into a clean mixing vessel, such as plastic bucket and stir thoroughly. If aggregate is to be used, add gradually while mixing fine aggregate first, followed by slow addition of coarse aggregate. Thorough mixing is essential. Incomplete mixing will result in poor physical properties.



### CONCRETE SURFACE PREPARATION

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 metre 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 concrete should be surface dry.

### CHEMICAL RESISTANCE

The following chemical resistance is based on tests conducted under continuous immersion conditions. In practice Megapoxy 132 based floor and wall surfaces are cleaned regularly, exposure to chemicals is limited to a few hours at a time and the severity of attack is correspondingly reduced. The data given below apply to continuous exposure conditions.

#### These Chemicals have no effect on Megapoxy 132:

Distilled water at 60°C, petrol, power kerosene, diesel fuel, crude oil, toluene, MIBK, carbon tetrachloride, styrene monomer, glycerine, hydrochloric acid at all concentrations to 31%, sulphuric acid at all concentrations to 70%, chromic acid 1%, acetic acid 5%, tartaric acid 5%, citric acid 5%, linseed fatty acid, sodium hydroxide all concentrations, ammonium hydroxide all concentrations to 15%, liquid detergent, sodium carbonate 10%, sodium bisulphate 10%, methylated spirits and coca cola.

### CURED PROPERTIES

Maximum Operating Temperature	100°C
Compressive Strength - ASTM 695	70MPa
Bond Strength Concrete - ASTM 454	3MPa - Concrete Failure
Tensile Bond Strength Steel - ASTM 1002	13MPa
Modulus of Elasticity - ASTM 695	2.4GPa
Tensile Strength	30MPa
Hardness - Barcol 935	90 at 25°C
Dielectric Strength 50HZ, 25°C	17Kv per mm

### AVAILABILITY

Megapoxy 132 is available ex stock in 4.5 litre and 30 litre kits. In each kit Part "A" and Part "B" are measured in the correct mixing ratio for immediate use.

Megapoxy 132 can be coloured using Megapoxy Pigment Pastes which can be manufactured in all colours represented in the Australian Standard 2700 "Colour Standard for General Purposes". Please contact our staff for information about Pigment Paste availability and pricing.

### CLEANING UP

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 Bulletin No. 100.

### TECHNICAL SERVICE

All purchasers of Megapoxy products are invited to avail themselves of our technical service on epoxy resins. The methods and systems outlined in this bulletin are the best available at the present time, however continual research and development is being carried out and could result in change without prior notice.

