

MEGAPOXY H315

HIGH STRENGTH RAPID SET EPOXY RESIN

DESCRIPTION

Megapoxy H315 is a rapid set low viscosity, 100% solids, resin based, solvent-free, liquid resin, that can be utilized as a coating or a casting, when fast return to service applications are needed. Megapoxy H315 has excellent static and dynamic mechanical properties, and can be used with the fine aggregates to make a fast set, high strength epoxy mortar. Megapoxy H315 is volatile organic compounds free (Nil V.O.C.)

RECOMMENDED APPLICATIONS

Casting
Concrete Crack Repair
Concrete Repairs

Coating
Floor Repairs
Low Pressure Injection

PROPERTIES

Mixing Ratio by Volume	3 Part A to 1 Part B
Work Time at 25°C:	10 minutes
Minimum Cure Time at 15°C	8 hours
Minimum Cure Time at 25°C	4 hours
Minimum Cure Time at 35°	2 hours
Thin Film Cure at 25°C	90 minutes
Minimum Application Temperature	10°C
Viscosity Part A at 25°C	1300 - 1900cps
Viscosity Part B at 25°C	25 - 30cps
Mixed Viscosity at 25°C	405cps
S.G. Part A at 25°C	1.12 - 1.14
S.G. Part B at 25°C	1.12 - 1.14
Mixed S.G. at 25°C	1.09
Colour Part A	Clear or N35 Grey
Colour Part B	Clear

CURED PROPERTIES

Compressive Strength - ASTM 695	80Mpa
Bond Strength Concrete - ASTM 454	>3Mpa
Tensile Bond Strength Steel - ASTM 1002	15Mpa
Modulus of Elasticity - ASTM 695	3.09Gpa
Flexural Strength - ASTM D695-96	40Mpa
Tensile Strength	24Mpa
Tensile Shear Strength	13Mpa
Hardness - Barcol 935	75 minimum



CHARACTERISTICS

- VOC Free
- Rapid Setting
- Thin Liquid
- Mixes easily by hand
- Very high strength permanent bonds
- Excellent tensile and compressive strengths, superior to concrete
- Excellent chemical resistance

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 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.

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 H315 Safety Data Sheets.

PACKAGING

Megapoxy H315 is available in 4lt & 20lt 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.

