Megapoxy

HT315

High Viscosity Rapid Set Epoxy Gel

Technical Data Sheet

DESCRIPTION

Megapoxy HT315 is a rapid set, high viscosity, 100% solids, resin based, solvent-free, epoxy gel, that can be utilized as a coating or a casting, when fast return to service applications are needed. Megapoxy HT315 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 HT315 is low volatile organic compounds. (Low V.O.C.)

RECOMMENDED APPLICATIONS

- Concrete Crack Repair
- Concrete Repairs
- Epoxy Mortars
- Coating
- Floor Repairs
- Steel Anchoring

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°C	2 hours
Thin Film Cure at 25°C	90 minutes
Minimum Application Temperature	10°C
Consistency Part A at 25°C	Thixotropic Paste
Consistency Part B at 25°C	Liquid
S.G. Part A at 25°C	1.00 -1.10
S.G. Part B at 25°C	0.98-1.02
Mixed S.G. at 25°C	1.02
Colour Part A	N35 Grey
Colour Part B	Clear
Apperance Mixed	N35 Grey

CURED PROPERTIES

Compressive Strength - ASTM D695	110MPa
Modulus of Elasticity - ASTM D695	1.3GPa
Bond Strength Concrete - ASTM D7234	>3MPa (concrete failure)
Flexural Strength - ASTM D790	55MPa
Tensile Strength - ASTM D638	30MPa
Tensile Bond Strength Steel - ASTM D897	17MPa
Tensile Shear Strength - ASTM D1002	4.7MPa (steel to steel)
Hardness - Shore D - ASTM D2240-00	75 minimum

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CHARACTERISTICS	• Low VOC • Rapid Setting • Thick Gel • Easily mixed manually • 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 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 HT315 Safety Data Sheets.
PACKAGING	Megapoxy HT315 is available in 4lt and 20lt kits. Product should be stored in cool dry place
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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