

HX

Extra Low Viscosity Epoxy Resin

Technical Data Sheet



DESCRIPTION	Megapoxy HX is a specially formulated extra low viscosity, 100% solids, resin based, solvent-free, hydrophilic liquid resin. Megapoxy HX is used regularly for the repair of cracked concrete by gravity penetration or low pressure injection. Megapoxy HX is also suitable for impregnation of porous substrates such as masonry and timber. Megapoxy HX has also been used successfully as a low viscosity laminating resin for fibreglass work.	
RECOMMENDED APPLICATIONS	 Casting Concrete Crack Repair Low Pressure Injection Surface Hardening Floor Repairs 	 Laminating Masonry Sealing Capillary Action Vacuum Bagging
PROPERTIES	Mixing Ratio by Volume Work Time at 25°C: Minimum Cure Time at 15°C Minimum Cure Time at 25°C Minimum Cure Time at 35° Thin Film Cure at 25°C Minimum Application Temperature Viscosity Part A at 25°C Viscosity Part B at 25°C Viscosity Part B at 25°C S.G. Part A at 25°C S.G. Part A at 25°C S.G. Part B at 25°C Mixed S.G. at 25°C Colour Part A	 3 Part A to 1 Part B 60 minutes 48 hours 24 hours 12 hours 4 - 6 hours 10°C 400 - 600cps 15 - 20cps 200cps 1.10 - 1.12 0.95 - 0.97 1.07 Clear Clear
CURED PROPERTIES	Compressive Strength - ASTM D695 Bond Strength Concrete - ASTM D4541 Tensile Bond Strength Steel - ASTM D897 Modulus of Elasticity - ASTM D695 Flexural Strength - ASTM D790 Tensile Strength - ASTM 638 Tensile Shear Strength - ASTM D1002 Hardness - Shore D - ASTM D2240	95Mpa >3Mpa 20Mpa 11Gpa 35Mpa 35Mpa 10Mpa >75

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World-leading epoxy adhesive solutions



CHARACTERISTICS	 VOC Free Hydrophilic 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 t	
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 PF Safety Data Sheet.	
PACKAGING	Megapoxy HX is available in 4It & 20It kits. Product should be stored in cool dry store.	
TECHNICAL SERVICE	for our Megapoxy Products. The informatio	encouraged to avail themselves of our Technical Service n in this Bulletin is correct at time of publication, however ng carried out and specs may change without notice.

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