

## HT

Hydrophilic Epoxy Gel Adhesive



## **Technical Data Sheet**

DESCRIPTION	Megapoxy HT is a 100% solids, resin based, solver HT is resistant to hydrogen sulphide that may be sewage. Megapoxy HT has excellent static and dy the fine aggregates to make high strength epoxy It can be used for wet to dry concrete adhesive. R splashzone repairs. Megapoxy HT is volatile organ	nt-free, hydrophilic epoxy gel adhesive. Megapoxy present in pipes and plants used for treatment of namic mechanical properties, and can be used with mortar. epairs of cracked concrete, underwater and hic compounds free (Nil V.O.C.)
RECOMMENDED APPLICATIONS	<ul> <li>New to Old Concrete Bonding</li> <li>Concrete Crack Repair</li> </ul>	<ul><li>Coating</li><li>Floor Repairs</li></ul>
	<ul><li>Concrete Repairs</li><li>Steel Anchoring</li></ul>	<ul><li> Lpoxy Mortars</li><li> Underwater Repairs</li></ul>
PROPERTIES	Mixing Ratio by Volume	3 Part A to 1 Part B
	Work Time at 25°C:	30 minutes at 25°C
	Minimum Cure Time at 15°C	48 hours
	Minimum Cure Time at 25°C	24 hours
	Minimum Cure Time at 35°	12 hours
	Minimum Application Temperature	10°C
	S.G. Part A at 25°C	1.00 - 1.05
	S.G. Part B at 25°C	0.97 - 0.99
	Mixed S.G. at 25°C	1.03
	Colour Part A	N35 Grey
	Colour Part B	Clear
	Appearance Mixed	N35 Grey
CURED PROPERTIES	Compressive Strength - ASTM D695	100Mpa
	Bond Strength Concrete - ASTM D4541	>3Mpa
	Tensile Bond Strength Steel - ASTM D897	20Mpa
	Modulus of Elasticity - ASTM D695	11Gpa
	Flexural Strength - ASTM D790	40Mpa
	Tensile Strength - ASTM D638	40Mpa
	Tensile Shear Strength - ASTM D1002	13Mpa
	New to Old Concrete Bonding: Slant Shear Test:	36MPa
	Hardness - Shore D - ASTM D2240-00	75 minimum

 3 Sefton Road, Thornleigh NSW 2120 Australia
 P: +61 (02) 9875 3044
 E: info@megapoxy.com
 megapoxy.com

 VIVACITY ENGINEERING PTY LTD
 ABN: 78 305 545 664

World-leading epoxy adhesive solutions



CHARACTERISTICS CONTINUED	<ul> <li>VOC Free</li> <li>Hydrophilic</li> <li>Thin Liquid</li> <li>Mixes easily by hand</li> <li>Very high strength permanent bonds</li> <li>Excellent tensile and compressive strengths, superior to concrete</li> <li>Excellent chemical resistance</li> </ul>	
SURFACE PREPARATION	<b>Concrete</b> 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.	
STEEL ANCHORING	For anchoring steel into concrete, drill a hole approximately 1.5 diameters of the steel to be grouted. Any dust or foreign matter must be blown out with oil-free, dry compressed air. Set the steel into the hole and pour the mixed Megapoxy H from one side to allow air to escape.	
	Allow to cure for 24 hours. For grouting of steel horizontally use Megapoxy HT, grouting steel vertically, Megapoxy H can be used. The steel should be grit blasted and degreased to achieve good bond.	
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.	

3 Sefton Road, Thornleigh NSW 2120 Australia P: +61 (02) 9875 3044 E: info@megapoxy.com **megapoxy.com** VIVACITY ENGINEERING PTY LTD ABN: 78 305 545 664

World-leading epoxy adhesive solutions

Megapoxy



## Megapoxy

## **Technical Data Sheet**

EPOXY MORTARS AND EPOXY CONCRETE		
EPOXY CONCRETE		
NEW TO OLD CONCRETE ADHESIVE	3Parts AMixing Ratio by volumeto1Part B	
	Mix Megapoxy HT as detailed above and apply by brush, roller or airless spray to prepared old concrete at the rate of 1 to 1.5 litres per square metre.	
	Place new concrete within 15 minutes of applying Megapoxy HT to ensure good bonding.	
	For vertical and overhead rendering use Megapoxy HT in place of Megapoxy H.	
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 HT Safety Data Sheets.	
PACKAGING	Megapoxy HT is available in 1lt, 4lt and 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.	

 3 Sefton Road, Thornleigh NSW 2120 Australia
 P: +61 (02) 9875 3044
 E: info@megapoxy.com
 megapoxy.com

 VIVACITY ENGINEERING PTY LTD
 ABN:78 305 545 664