



**Epoxy Paste Adhesive** 



## **Technical Data Sheet**

DESCRIPTION	<ul> <li>Megapoxy P1 is a two component gap filling adhesive based on DGEBA epoxy resin and carbonate free filler. Easy to use, this product sets after mixing with excellent properties for a wide range of applications.</li> <li>Megapoxy P1 is volatile organic compounds free (Nil VOC) and is suitable for use in repairs of structures that are in contact with potable water. Megapoxy P1 complies with AS/NZS 4020:2018 "Testing of Products For Use In Contact with Drinking Water".</li> <li>Megapoxy P1 is resistant to hydrogen sulphide that may be present in pipes and plants used for treatment of sewage.</li> </ul>		
Precast concrete articles	<ul> <li>Concrete pipes and tanks Fibreglass articles</li> </ul>		
Metal to metal or concrete	<ul> <li>Fibreglass articles</li> </ul>		
Grouting bolts	<ul> <li>Concrete floors and stairs</li> </ul>		
Natural stones	Concrete column		
	Bricks and ceramics	Insitu formed concrete	
	<ul> <li>Bonding compressed cement sheet</li> </ul>	<ul> <li>Flush-filling countersunk screws in fibre cement sheet</li> </ul>	
PROPERTIES	Mixing Ratio by Volume	1 Part A to 1 Part B	
	Work Time at 25°C:	60 minutes	
	Minimum Cure Time at 15°C	48 hours	
	Minimum Cure Time at 25°C	24 hours	
	Minimum Cure Time at 35°	12 hours	
	Full Cure Time at 25°C	4 Days	
	Minimum Application Temperature	10°C	
	Maximum Operating Temperature	80°C	
	Colour Part A	White	
	Colour Part B	Black	
	Appearance Mixed	Dark Grey	

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 VIVACITY ENGINEERING PTY LTD
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World-leading epoxy adhesive solutions

## Megapoxy

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CURED	Compressive Strength - ASTM D695	80Мра	
PROPERTIES	Bond Strength Concrete - ASTM D4541	>3Mpa	
	Tensile Bond Strength Steel - ASTM D897	19Мра	
	Modulus of Elasticity - ASTM D695	2Gpa	
	Flexural Strength - ASTM D790	ЗЗМра	
	Tensile Strength - ASTM 638	45Mpa	
	Tensile Shear Strength - ASTM D1002	11Mpa	
	Hardness - Shore D - ASTM D2240	75	
	Dielectric Strength 50Hz @25°C(Kv/cm)	190	
	Coefficient of Linear Thermal Expansion	59.0 x 10-6 mm/mm/°C	
CHARACTERISTICS	<ul><li>VOC Free</li><li>Simple 1:1 mix ratio</li></ul>	Good strength retention after prolonged immersion in water	
	Creamy Texture, blend easily	<ul> <li>High strength permanent bonds</li> </ul>	
	No – Sag on vertical & overhead surfaces	<ul> <li>Excellent tensile and compressive strengths, superior to concrete</li> </ul>	
	<ul> <li>Adheres and cures under adverse conditions (cold &amp; damp)</li> </ul>	Excellent chemical resistance	
		Flash Point above 200°C	
CONCRETE & STEEL PROTECTION	Megapoxy P1 is suitable for protection of reinforcing steel where concrete cover is insufficiently thick, and to prevent corrosion Megapoxy P1 can be applied directly to steel, grit blasted to a bright metal finish.		
	Properly mixed and applied Megapoxy P1 is a stone like solid that will retain strength permanently.		
	Applications to concrete necessitates surface preparation to ensure that Megapoxy P1 is bonded to a sound substrate.		
	Experience show that a minimum of a 3mm layer of Megapoxy P1 provides protection to reinforcing steel equivalent to approximately 50mm of concrete cover.		

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SURFACE	Concrete		
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 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 P1 Safety Data Sheet.		
PACKAGING	Megapoxy P1 is available in 4lt and 20lt kits.		
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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