



Heavy Duty Epoxy Grout

Technical Data Sheet

DESCRIPTION	Megapoxy 57 is a high strength, pre-filled, solvent free epoxy grout designed for deep casting situations. The product can also be extended with suitable aggregate such as an epoxy grade sand, u to equal parts resin to aggregate ratio by volume to suit individual application conditions. Megapoxy 57 has a high flow rate and can be applied into narrow gaps down to 4mm if the application requires so. This product will achieve a very high bond strength, compressive strength, flexural strength and tensile strength with extremely low exothermic reaction and shrinkage. Megapoxy 57 has a very high resistance to chemicals allowing it to be used for machinery in chemical processing plants. When used with an aggregate, Megapoxy 57 can be poured up to 80mm thick which is far more economical than pouring in stages.	
RECOMMENDED APPLICATIONS	 Bridge Bearing Pads Rail Track Grouting Locking Bearings 	 Grouting Machinery Setting Anchor Bolts Chocking of Machinery
PROPERTIES	Mixing Ratio by Volume	Mix complete kit
	Worktime at 15°C	60 minutes
	Work Time at 25°C:	30 minutes
	Work Time at 35°C:	15 minutes
	Initial Cure Time at 15°C:	12 hours
	Initial Cure Time at 25°C	6 hours
	Initial Cure Time at 35°C	3 hours
	Minimum Cure Time at 25°C	24 hours
	Minimum Cure Time at 35°C	12 hours
	Viscosity Part A at 25°C	35,000 - 50,000cps
	Viscosity Part B at 25°C	600 - 900cps
	Mixed Viscosity at 25°C	6000-8000cps
	S.G. Part A at 25°C	1.66 - 1.72
	S.G. Part B at 25°C	0.95 - 0.98
	Mixed S.G. at 25°C	1.51
	Colour Part A	Yellow
	Colour Part B	Blue
	Appearance Mixed	Green

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

Technical Data Sheet

57

		00%0	
CURED PROPERTIES	Maximum Operating Temperature	80°C	
	Compressive Strength - ASTM 695-96	95MPa	
	Bond Strength Concrete - ASTM 454	>3MPa (Concrete Failure)	
	Modulus of Elasticity - ASTM 695	4.9GPa	
	Tensile Strength ASTM D638	26MPa	
	Hardness - Barcol 935	85 at 25°C	
	Dielectric Strength 50HZ, 25°C	17Kv per mm	
MIXING PROCEDURE	Add the entire contents of Part "B" into the Part "A" tin, there is enough space to combine both parts in the Part "A" container. Mix the two parts together thoroughly for at least 3 minutes by hand or using a mechanical stirrer on a low speed of 200rpm or lower. Ensure the mixture is thoroughly mixed and the two parts are combined into a uniform colour. This is essential as incomplete mixing will result in poor physical properties.		
		gregate into the mixed material whist still mixing with borate air into the mixture. Continue to mix and add ched and you have a uniform epoxy mortar.	
SURFACE	General Surfaces		
PREPARATION	Good adhesion can only be achieved if proper pre-treatment of surfaces to be bonded is carried out. With the exception of concrete, surfaces should be degreased, grit blasted or mechanically abraded and degreased again to ensure no surface contaminants are present. Wire brushing is not a adequate surface preparation and will produce poor adhesion.		
	Concrete Surfaces		
	For concrete surfaces you may need to prepare the surface more thoroughly. The surface should be free of grease, oil and other contaminants. If necessary, clean with industrial grade degreasing agent Once clean, steps must be taken to remove surface laitance. This is best achieved by grit blasting. Alternatives are mechanical abrasion such as diamond grinding.		
	Formwork		
	The formwork used when pouring Megapoxy 57 must be made of a strong, non-porous material and constructed to contain sufficient Megapoxy 57 grout without leaking. Install adequate vent holes or bleed hoses to ensure no air is trapped beneath the surface, resulting in a weak substrate. Ensure you use a wax based release agent to sufficiently coat the formwork to prevent the epoxy grout adhering to the formwork.		
	Application		
	Once the surface is prepared and the product mixed, Megapoxy 57 epoxy grout shall be applied immediately following the mixing process. Apply the grout by pouring for one side of the void only, this is to avoid the entrapment of air. Pour with a continuous flow of grout with enough material to fill the entire void. An adequate head must be maintained at all times for a continuous flow. A funnel or header box is usually sufficient for this purpose, however pumping may be possible with the right equipment. The grout must be poured until the grout rises above the bottom of the base plates.		
	Thickness		
	are required the grout should be bulked out u	It 25°C in one pour is 5-30mm. If greater thicknesses sing aggregates, or by making multiple pours less than nm thick you can use clean dry Quartz Silica Sand at	

World-leading epoxy adhesive solutions





Technical Data Sheet

CLEANING	To keep mixing implements and working tools clean use Megapoxy Thinners. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene.
PACKAGING	Megapoxy 57 is available in 9.4kg kits which equates to 6.2 Litres when mixed. In each kit Part "A" and Part "B" are measured in the correct mixing ratio for immediate use.
TECHNICAL SERVICE	All purchasers of Megapoxy products are invited to avail themselves of our technical service on epoxy resins. The methods and systems outlined in this bulletin are the best available at the present time, however continual research and development is being carried out and could result in change without prior 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

World-leading epoxy adhesive solutions