

57 Slow

Heavy Duty Epoxy Grout for Use in High Temperatures

Technical Data Sheet

DESCRIPTION	Megapoxy 57 Slow is a high strength, pre-filled, solvent free epoxy grout designed for applications in higher temperature conditions and for deep casting situations. The product can also be extended with suitable aggregate such as an epoxy grade sand, up to equal parts resin to aggregate ratio by volume to suit individual application conditions. Megapoxy 57 Slow 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 Slow 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 Slow can be poured up to 80mm thick which is far more economical than pouring in stages.		
RECOMMENDED APPLICATIONS	Bridge Bearing Pads	Grouting Machinery	
	Rail Track Grouting	Setting Anchor Bolts	
	 Locking Bearings 	Chocking of Machinery	
PROPERTIES	Mixing Ratio by Volume	Add entire contents of Part B container into Part A container	
	Work Time at 25°C:	60 minutes	
	Work Time at 35°C:	30 minutes	
	Tack Free Time at 25°C:	12 Hours	
	Tack Free Time at 35°C:	8 Hours	
	Tack Free Time at 45°C:	4 Hours	
	Minimum Cure Time at 15°C	48 hours	
	Minimum Cure Time at 25°C	36 hours	
	Minimum Cure Time at 35°C	24 hours	
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. When using an aggregate, slowly pour the aggregate into the mixed material whist still mixing with a mechanical stirrer. Be cautious not to incorporate air into the mixture. Continue to mix and add aggregate until the desired consistency is reached and you have a uniform epoxy mortar.		

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CURED PROPERTIES	Maximum Operating Tem	perature	80°C		
	Compressive Strength - A	STM 695-96	95MPa		
	Bond Strength Concrete	- ASTM 454	>3MPa (Concrete Failure)		
	Modulus of Elasticity - AS	TM 695	4.9GPa		
	Tensile Strength ASTM De	638	26MPa		
	Hardness - Barcol 935		85 at 25°C		
	Dielectric Strength 50HZ	,25°C	17Kv per mm		
SURFACE PREPARATION	General Surfaces				
	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 an 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 Slow must be made of a strong, non-porous material and constructed to contain sufficient Megapoxy 57 Slow 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 Slow 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				
	The typical thickness range of Megapoxy 57 Slow at 25°C in one pour is 5-30mm. If greater thicknesses are required the grout should be bulked out using aggregates, or by making multiple pours less than 30mm in thickness. For large pours up to 80 mm thick you can use clean dry Quartz Silica Sand at grades of 1-2mm as described.				
PRODUCT SPECIFICATION		Part A	Part B	Mixed	
	Colour	Yellow	Amber	Yellow	
	Viscosity (cP @ 25°C)	35,000 - 50,000	400 - 600	6000-8000	
	Specific Gravity	1.66 - 1.72	0.95 - 0.98	1.51	
	Flash Point	>200°C	>200°C	N/A	
	Shelf Life	2 years min.	2 years min.	N/A	
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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 Slow 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.

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