

Two Component Epoxy Paste Adhesive For Ceramic Tile Linings

Technical Data Sheet

DESCRIPTION	Megapoxy 84 is a two component epoxy paste adhesive suitable for fixing high alumina ceramic tile linings to steel or concrete for applications where elevated temperatures will be encountered. Megapoxy 84 is suitable for use in locking the inner and outer eccentric bushings in Symons® Cone Crushers & various other crushing machinery.	
PROPERTIES	Mixing Ratio	4 Part A to 1 Part B
	Work Time at 25°C	30 minutes
	Minimum Application Temperature	10°C
	Maximum Operating Temperature	120°C
	Colour Part A	White
	Colour Part B	Blue
	Appearance Mixed	Pale Blue
	Consistency Part A	Thixotropic Gel/Paste
	Consistency Part B	Liquid
	S.G. Part A at 25°C	1.05 - 1.15
	S.G. Part B at 25°C	0.94 - 0.96
	Mixed S.G. at 25°C	1.05
	Thermal Coefficient of expansion	0.00006 k-1
	Thermal Conductivity	0.4 W/(m*K)
	Compressive strength	120 MPa
	Flexural strength	55 MPa
	Hardness - Shore D - ASTM D2240-00	70 minimum
SURFACE PREPARATION	Steel should be cleaned to “white metal” finish by grinding or grit blasting. Concrete should be scabbled back or grit blasted to expose firmly held aggregate. The surface of tiles to be bonded must be clean and grease free.	
MIXING	To avoid errors in measuring Megapoxy 84, it is advisable to mix the whole kit at one time. Combine the entire contents of part “B” into part “A” and mix thoroughly using a putty knife or spatula. To ensure thorough mixing of the two components scrape both the sides and bottom of the mixing container for a minimum of 3 minutes. (Note: When adding the Part “B” it must be mixed in slowly so that splashing does not occur).	

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APPLICATION	<p>Apply the mixed Megapoxy 84 to the steel or concrete surface at a rate of approximately 1.25 litres per m² and spread with notched trowel. Place high alumina ceramic tile onto the bed of Megapoxy 84 and press to ensure full even contact of the tile surface.</p> <p>Megapoxy 84 can be cleaned up using Megapoxy Thinners and warm soapy water to achieve a tidy uniform application. Megapoxy 84 will set after approximately 4 hours @25°C. Initially the product tends to be a little brittle at first, but develops toughness after 48 hours. Avoid exposure to elevated temperatures during this period. After 72 hours the tiled surface can be subjected to service at 120°C maximum continuous exposure</p>
AVAILABILITY	<p>Megapoxy 84 is available in 2.5 litre kits. Each kit is pre-measured ready for immediate use and can be mixed in the container provided. Larger kit sizes are available on request.</p>
CLEANING	<p>To keep mixing implements and working tools clean use Megapoxy Thinners. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene.</p>
TECHNICAL SERVICE	<p>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.</p>
SAFETY INFORMATION	<p>Please refer to our material safety data sheet (MSDS) for full occupational health and safety practices.</p>