



Technical Data Sheet

DESCRIPTION	<p>Megapoxy High Impact Crusher Backing is a two component, heavy duty, 100% solids, high strength, pourable epoxy grout, for use in the backing and reinforcement of metal liner plates and the filling of gaps between liners and support structures. It can be used in Cone Crushers, Primary Gyratory Crushers, Rotating Mills, Pulverisers, and for many other grouting applications in the mining and quarry industries. It has excellent impact and compressive strength.</p> <p>Megapoxy HICB has very low volatile organic compounds.</p>		
RECOMMENDED APPLICATIONS	<div><ul style="list-style-type: none">• Cone Crusher• Grinding Mills• Locking Bearings• Chocking of Machinery</div> <div><ul style="list-style-type: none">• Gyratory crusher• Grouting Machinery• Setting Anchor Bolts• Rail track grouting</div>		
PROPERTIES		Standard HICB	Accelerated HICB
	Mixing Ratio	Mix complete kit	Mix complete kit
	Work Time at 25°C:	30 minutes	10 minutes
	Minimum Cure Time at 15°C	48 hours	12 hours
	Minimum Cure Time at 25°C	24 hours	6 hours
	Minimum Cure Time at 35°C	12 hours	3 hours
	Minimum Application Temperature	10°C	10°C
	Viscosity Part A at 25°C	20000 - 30000cps	16000 - 21000cps
	Viscosity Part B at 25°C	1200 - 1900cps	1200 - 1900cps
	Mixed Viscosity at 25°C	17150cps	14500cps
	S.G. Part A at 25°C	1.65 - 1.75	1.65 - 1.70
	S.G. Part B at 25°C	1.00 - 1.05	1.00 - 1.05
	Mixed S.G. at 25°C	1.58	1.60
	Colour Part A	Natural	Natural
	Colour Part B	Blue	Blue
	Appearance Mixed	Blue Green	Blue Green

Technical Data Sheet

CURED PROPERTIES	Yield Compressive Strength - ASTM C579	83 MPa
	Ultimate Compressive Strength - ASTM C579	112MPa
	Bond Strength Concrete - ASTM D4541	>3MPa
	Tensile Bond Strength Steel - ASTM D897	20MPa
	Modulus of Elasticity - ASTM C579	2.5GPa
	Flexural Strength - ASTM D790	43MPa
	Tensile Strength - ASTM D638	26MPa
	Tensile Lap Shear Strength - ASTM 1002	12MPa (steel to steel)
	Hardness - Shore D - ASTM D2240-00	80
	Dielectric Strength (kV/mm)	39
	Surface Resistivity (Ohm) - ASTM D257	10 ¹²
	Volume Resistivity (Ohm.cm)	7.7 x 10 ¹⁰
	VOC (g/l) - ASTM D3960	4
CHARACTERISTICS	<ul style="list-style-type: none"> • Very Low VOC • Pre-Metered Kits • Mixes Easily - Manually or Mechanically • Flowable • High Impact Strength • High Strength Bonds • Excellent tensile and compressive strengths, superior to concrete • Excellent chemical resistance • Maximum Casting Thickness : 50 mm. 	
SURFACE PREPARATION	<p>Metal Surfaces</p> <p>Metals should be grit blasted to AS 1627.2.2002. 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.</p>	
METHOD OF USE	<ol style="list-style-type: none"> 1. Seal all crevices with putty (such as Megapoxy PF Rapid set paste) so that backing mixture does not leak out. 2. Make certain no settling has occurred in the resin by stirring until uniform. 3. Add the hardener (Part B) slowly with continual mixing. 4. Using low speed electric mixer, mix for a minimum of 2 minutes, making sure scrape the base of the pail and not aerating the Megapoxy HICB 5. After 2 minutes, scrape the sides of the pail with a straight edge to remove unmixed Part A from the sides of the pail. Do not use the mixer head to scrape the sides.. 6. Mix for another 1 minute minimum. If there is a blue ring of Part B around the edge of the pail, lift the mixer slightly and lean the mixer back approximately 30°. This will change the resin flow and should pull the Part B into the mix. 7. The Megapoxy HICB should now be uniform in colour. 8. Mixed Megapoxy HICB must be used immediately after mixing. <ul style="list-style-type: none"> • If ambient temperature is high, the kits should be stored in as cool a place as possible. • High ambients will lead to greatly shortened usable life. • If topping up is required, then this can be carried out at a later date when it is convenient.. • Allow Megapoxy HICB to harden before returning crusher into service. 	

Technical Data Sheet

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 HICB Safety Data Sheet.
PACKAGING	Megapoxy HICB and Megapoxy HICB Accelerated are available in 10kg (approx. 6lt) 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.