



## Technical Data Sheet

<b>DESCRIPTION</b>	<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 is volatile organic compounds free (Nil V.O.C.)</p>		
<b>RECOMMENDED APPLICATIONS</b>	<ul style="list-style-type: none"> <li>• Cone Crusher</li> <li>• Grinding Mills</li> <li>• Locking Bearings</li> <li>• Chocking of Machinery</li> <li>• Gyratory crusher</li> <li>• Grouting Machinery</li> <li>• Setting Anchor Bolts</li> <li>• Rail track grouting</li> </ul>		
<b>PROPERTIES</b>		<b>Standard HICB</b>	<b>Accelerated HICB</b>
	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°	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
<b>CURED PROPERTIES</b>	Compressive Strength - ASTM D695	115Mpa	
	Bond Strength Concrete - ASTM 4541	>3Mpa	
	Tensile Bond Strength Steel - ASTM D897	20Mpa	
	Modulus of Elasticity - ASTM D695	7.7Gpa	
	Flexural Strength - ASTM D790	30Mpa	
	Tensile Strength - ASTM D638	45Mpa	
	Tensile Shear Strength - ASTM 1002	13Mpa	
	Hardness - Shore D - ASTM D2240-00	80	

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<b>CHARACTERISTICS</b>	<ul style="list-style-type: none"> <li>• VOC Free</li> <li>• Pre-Metered Kits</li> <li>• Mixes Easily - By Hand or Mechanically</li> <li>• Flowable</li> <li>• High Impact Strength</li> <li>• High Strength Bonds</li> <li>• Excellent tensile and compressive strengths, superior to concrete</li> <li>• Excellent chemical resistance</li> <li>• Maximum Casting Thickness : 50 mm.</li> </ul>
<b>SURFACE PREPARATION</b>	<p><b>Metal Surfaces</b></p> <p>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.</p>
<b>METHOD OF USE</b>	<ol style="list-style-type: none"> <li>1. Seal all crevices with putty (such as Megapoxy PF Rapid set putty) so that backing mixture does not leak out.</li> <li>2. Make certain no settling has occurred in the resin by stirring until uniform.</li> <li>3. Add the hardener (Part B) slowly with continual mixing.</li> <li>4. Using low speed electric mixer, mix for a minimum of 2 minutes, making sure scrape the base of the bucket and not aerating the Megapoxy HICB</li> <li>5. After 2 minutes, scrape the sides.</li> <li>6. Mix for another 1 minute minimum.</li> <li>7. The Megapoxy HICB should now be uniform in colour.</li> <li>8. The mixture must be used immediately after mixing.</li> </ol> <ul style="list-style-type: none"> <li>• If ambient temperature is high, the kits should be stored in as cool a place as possible.</li> <li>• High ambients will lead to greatly shortened usable life.</li> <li>• If topping up is required, then this can be carried out at a later date when it is convenient..</li> <li>• Allow Megapoxy HICB to harden before returning crusher into service.</li> </ul>
<b>IMPORTANT INFORMATION</b>	<p>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.</p>
<b>CLEANING</b>	<p>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 PF Safety Data Sheet.</p>
<b>PACKAGING</b>	<p>Megapoxy HICB and Megapoxy HICB Accelerated is available in 10kg (6lt) kits Product should be stored in cool dry store.</p>
<b>TECHNICAL SERVICE</b>	<p>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.</p>