

### 206 Ultra

Heavy Duty Epoxy Grout

#### **Technical Data Sheet**



DESCRIPTION	Megapoxy 206 Ultra is a two component, 100% solids, resin based, solvent-free, hydrophilic water displacing, flowable epoxy grout, designed specifically for use in civil engineering applications, where development of high compressive and impact strength is required.		
RECOMMENDED APPLICATIONS	<ul> <li>Pile Splicing</li> <li>Pile Repair &amp; Restoration</li> <li>Locking Bearings</li> <li>Rail Track Grouting</li> <li>Core Hole Filling</li> <li>Locking PT Cables</li> </ul>	<ul> <li>Grouting Machinery</li> <li>Setting Anchor Bolts</li> <li>Machinery Grouting</li> <li>Bridge Bearing Pads</li> <li>Floor Repairs</li> <li>Filling Truncation Pockets</li> </ul>	
PROPERTIES	Mixing Ratio by Volume Work Time at 25°C: Minimum Cure Time at 15°C Minimum Cure Time at 25°C Minimum Cure Time at 35° Minimum Application Temperature Viscosity Part A at 25°C Viscosity Part B at 25°C Viscosity at 25°C S.G. Part A at 25°C S.G. Part A at 25°C S.G. Part B at 25°C Mixed S.G. at 25°C Mixed S.G. at 25°C Colour Part A Colour Part B Appearance Mixed	5 Part A to 1 Part B         30 minutes         48 hours         24 hours         12 hours         10°C         45000 - 55000cps         75-90cps         10000cps         1.65 - 1.75         0.97 - 0.99         1.54         Grey         Black         Grey	
CURED PROPERTIES	Compressive Strength - ASTM D695 Bond Strength Concrete - ASTM D4541 Tensile Bond Strength Steel - ASTM D897 Modulus of Elasticity - ASTM D695 Flexural Strength - ASTM D790 Tensile Strength ASTM D638 Tensile Shear Strength - ASTM D1002 Hardness - Shore D - ASTM D2240-00 Dielectric Strength 50Hz @25°C(Kv/mm)	120Mpa >3Mpa 13Mpa 7.7Gpa 30Mpa 40Mpa 14Mpa 90 17	

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World-leading epoxy adhesive solutions

# 206 Ultra



CHARACTERISTICS	<ul> <li>VOC Free</li> <li>Pre-Metered Kits</li> <li>Mixes Easily - By Hand or Mechanically</li> <li>Flowable, Can be poured under 5mm plates</li> <li>Adheres and cures under adverse conditions (cold &amp; damp)</li> <li>Good strength retention after prolonged immersion in water</li> </ul>	<ul> <li>High strength permanent bonds</li> <li>Excellent tensile and compressive strengths, superior to concrete</li> <li>Excellent chemical resistance</li> <li>Flash Point above 100°C</li> </ul>	
SURFACE PREPARATION	<b>Concrete</b> Concrete should be free from grease and oil. If necessary, clean with industrial heavy duty degreaser. When clean, remove surface laitance. This is best done by mechanical abrasion such as scabbling, grit blasting or grinding. If this is not possible acid etching must be carried out. Mix concentrated hydrochloric acid with equal volume of water and spread at the rate of 0.5 litre per square meter of concrete surface. Allow to react for about 10 minutes and wash the area thoroughly and scrub with a stiff bristled broom to remove loose sand. Allow to dry for 24 hours. For maximum adhesion the concrete should be surface dry.		
	Metal Surfaces		
	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.		
	Coated Surfaces		
	It is recommend to remove all coatings prior to bonding, bonding to coated surfaces will give inferior bond strengths compared to bonding directly to a prepared substrate.		
	Concrete:		
	The surface may be either flame-cleaned, or mea traces of paint. Complete the preparation by dian	chanically treated with a scutching tool, to remove all nond grinding or scabbling.	
	Metals:		
	Steps should be taken to remove all paint and/or used, followed by grit blasting or grinding to a bri	galvanizing. Good quality paint stripper should be ght metal finish.	
STEEL ANCHORING	Any dust or foreign matter must be blown out wit	roximately 1.5 diameters of the steel to be grouted. th oil-free, dry compressed air. Set the steel into the mulation from one side to allow air to escape. The nieve good bond.	
TYPICAL PULL OUT STRENGTH - 40Mpa CONCRETE	14mm deformed bar inserted to depth 10 x diame 25mm deformed bar inserted to depth 8 x diame 14mm deformed bar inserted to depth 8 x diame	ter of bar >150kN	
	25mm deformed bar inserted to depth 10 x diam	eter of bar >150kN	

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MIXING PROCEDURE	Add the entire contents of Part B into the Part A drum, there is enough space to combine both parts	
	in the Part A container.	
	Mix the two parts together thoroughly for 2 minutes, by hand or using a mechanical stirrer on a low speed of 200rpm or lower, making sure to scrape the base and corners of the drum.	
	Do not move the mixer up and down.	
	Once 2 minutes is up, scrape the sides of the drum with a straight edge to remove unmixed Part A from the sides of the drum. Do not use the mixer head to scrape the sides.	
	Mix for another 1 minute, if there is a black ring of Part B around the edge of the drum, 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.	
	Ensure the mixture is thoroughly mixed, this is essential, as incomplete mixing will result in poor physical properties. Megapoxy 206 Ultra must be applied immediately after mixing. If ambient temperature is high, Megapoxy 206 Ultra should be stored in a cool place until used. High ambient temperatures will lead to shortened usable life. Topping up can be carried out at a later date when convenient. If you do not require adhesion of the Megapoxy 206 Ultra form work surfaces should be coated with Megapoxy Wax or silicone based release agent.	
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 206 Ultra Safety Data Sheet.	
PACKAGING	Megapoxy 206 Ultra is available in 6lt and 16lt kits.	
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.	

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