

### MEGAPOXY 206 ULTRA LV LOW VISCOSITY HEAVY DUTY EPOXY GROUT

**DESCRIPTION** Megapoxy 206 Ultra LV 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.

<b>RECOMMENDED APPLICATIONS</b>	Pile Splicing Pile Repair & Restoration Locking Bearings Rail Track Grouting Core Hole Filling Locking PT Cables	Grouting Machinery Setting Anchor Bolts Machinery Grouting Bridge Bearing Pads Floor Repairs Filling Truncation Pockets
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<b>PROPERTIES</b>	Mixing Ratio by Volume	5 Part A to 1 Part B
	Work Time at 25°C:	30 minutes
	Minimum Cure Time at 15°C	48 hours
	Minimum Cure Time at 25°C	24 hours
	Minimum Cure Time at 35°	12 hours
	Minimum Application Temperature	10°C
	Viscosity Part A at 25°C	18000 - 22000cps
	Viscosity Part B at 25°C	75-90cps
	Mixed Viscosity at 25°C	4900cps
	S.G. Part A at 25°C	1.65 - 1.75
	S.G. Part B at 25°C	0.97 - 0.99
	Mixed S.G. at 25°C	1.54
	Colour Part A	Grey
	Colour Part B	Black
	Appearance Mixed	Grey

<b>CURED PROPERTIES</b>	Compressive Strength - ASTM 695	120Mpa
	Bond Strength Concrete - ASTM 454	>3Mpa
	Tensile Bond Strength Steel - ASTM 1002	13Mpa
	Modulus of Elasticity - ASTM 695	7.7Gpa
	Flexural Strength - ASTM D695-96	30Mpa
	Tensile Strength	40Mpa
	Tensile Shear Strength	14Mpa
	Hardness - Barcol 935	>80
	Dielectric Strength 50Hz @25°C(Kv/mm)	17



### CHARACTERISTICS

- VOC Free
- Pre-Metered Kits
- Mixes Easily - By Hand or Mechanically
- Flowable, Can be poured under 3mm plates
- Adheres and cures under adverse conditions (cold & damp)
- Good strength retention after prolonged immersion in water
- High strength permanent bonds
- Excellent tensile and compressive strengths, superior to concrete
- Excellent chemical resistance
- Flash Point above 100°C

### SURFACE PREPARATION

#### **Concrete**

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 mechanically treated with a scutching tool, to remove all traces of paint. Complete the preparation by diamond grinding or scabbling.

#### **Metals:**

Steps should be taken to remove all paint and/or galvanizing. Good quality paint stripper should be used, followed by grit blasting or grinding to a bright metal finish.

### 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 to form work, surfaces should be coated with Megapoxy Wax or a 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.

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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. For further details refer to the Megapoxy 206 Ultra LV Safety Data Sheet.

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### PACKAGING

Megapoxy 206 Ultra LV is available in 6lt and 16lt kits.

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### 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.

