MEGAPOXY 206 Ultra

HEAVY DUTY EPOXY GROUT

DESCRIPTION

Megapoxy 206 Ultra Megapoxy 206 is a two component, flowable, 100% solids, solvent-free hydrophilic water displacing epoxy grout designed specifically for use in civil engineering applications where development of high strength is essential. Typical application for repairing bridge piles where high compressive and impact strength is required.

APPLICATIONS

- Pile Splicing
- Pile Repair and Restoration
- Locking Bearings
- Rail Track Grouting
- Grouting Machinery
- Setting Anchor Bolts
- Chocking of Machinery
- Bridge Bearing Pads

PROPERTIES UNCURED

	Megapoxy 206 Ultra
Mixing Ratio	Add entire contents of Part B container to Part A container
Working Time	60 Minutes @ 15°C
	30 Minutes @ 25°C
Tack Free Time	6 Hours @ 15°C
	4 Hours @ 25°C
	2 Hours @ 35°C
Cure Time	36 Hours @ 15°C
	24 Hours @ 25°C
	12 Hours @ 35°C

MIXING PROCEDURE

Add the entire contents of Part “B” into the Part “A” tin, there is enough space to combine both parts in the Part "A" container. Mix the two parts together thoroughly for at least 3 minutes by hand or using a mechanical stirrer on a low speed of 200rpm or lower. 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 wax or silicone based release agent.

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CURED PROPERTIES

Maximum Operating Temperature	100°C
Compressive Strength - ASTM 695	110MPa
Bond Strength Concrete - ASTM 454	>3MPa (Concrete Failure)
Tensile Bond Strength Steel - ASTM 1002	13MPa
Modulus of Elasticity - ASTM 695	7.7GPa
Tensile Strength	40MPa
Hardness - Barcol 935	90 at 25°C
Dielectric Strength 50HZ, 25°C	17Kv per mm

TYPICAL PULL OUT STRENGTH - 40MPa CONCRETE

14mm deformed bar inserted to depth 10 x diameter of bar	>50kN
25mm deformed bar inserted to depth 8 x diameter of bar	>150kN
14mm deformed bar inserted to depth 8 x diameter of bar	>50kN
25mm deformed bar inserted to depth 10 x diameter of bar	>150kN

STEEL ANCHORING

For anchoring steel into concrete drill a hole approximately 1.5 diameters of the steel to be grouted. Any dust or foreign matter must be blown out with oil-free, dry compressed air. Set the steel into the hole and pour the above Megapoxy 206 Ultra formulation from one side to allow air to escape. The steel should be grit blasted and degreased to achieve good bond.

PRODUCT SPECIFICATION

	Part A	Part B
Colour	Grey	Black
Viscosity (cP @ 25°C)	10,000 - 14,000	1000 - 2000
Specific Gravity	>1.7	>0.98
Flash Point	Above 100°C	Above 100°C
Shelf Life	2 years min.	2 years min.

AVAILABILITY

Megapoxy 206 Ultra is available in 6 litre and 16 litre kits. In each kit Part “A” and Part “B” are measured in the correct mixing ratio for immediate use.

CLEANING UP

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 Bulletin No. 100.

TECHNICAL SERVICE

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.

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