

MEGAPOXY H & HT FOR ANCHORING STEEL INTO CONCRETE

MEGAPOXY Hydrophilic resins are recommended as suitable high strength materials suitable for bonding and anchoring steel reinforcement, starter bars and tie bars into concrete, brick work and stone. Several Australian authorities including Roads & Traffic Authority of N.S.W, Rail Services Authority of N.S.W., Water Board, specify MEGAPOXY H and MEGAPOXY HT for these end uses. Can also be used in damp and underwater applications.

GUARANTEE

Both MEGAPOXY H and MEGAPOXY HT are manufactured to provide cured resin with minimum compressive strength of 67 MPa after 24 hour cure at 25°C. The fully cured resins will reach compressive strengths in excess of 100 MPa

PRODUCT PROPERTIES

MEGAPOXY H : Low viscosity liquid system
 Mixing Ratio : 3 parts "A" to 1 part "B" by volume
 Pot Life at 25°C : 30 minutes
 Minimum Cure Time at 25° C : 12 hours

MEGAPOXY HT : Non-sag Gel and Liquid hardener
 Mixing Ratio : 3 parts "A" to 1 part "B" by volume
 Pot Life at 25°C : 30 minutes
 Minimum Cure Time at 25° C : 12 hours



RECOMMENDED PROCEDURE

Clean out cavity in concrete by blowing with a stream of dry, oil free air from a compressor. Lightly wash the cavity using Megapoxy cleaning solvent and a wire brush. Premix the required quantity of Megapoxy HT for horizontal holes or MEGAPOXY H for vertical holes. Place resin into the hole by pouring or injecting from a clean low pressure injection gun or cartridge. Insert the cleaned steel bar into the cavity and allow to cure for at least one day. Galvanised steel bars should be cleaned by abrading with an emery cloth or preferably by grit blasting, followed by thorough degreasing with Megapoxy degreaser.

For reasons of economy Megapoxy H may be pre-mixed with an equal volume of dry, epoxy quality sand. The sand addition will increase the viscosity of the grouting resin and is useable - only where the clearance between the steel bar and side of the concrete hole is greater than 7 mm. The added sand will not significantly affect the performance of Megapoxy at the above recommended mixing ratio.

TYPICAL PULL OUT STRENGTHS

Using 40 MPa concrete

14 mm deformed bar inserted to depth 10 x diameter of bar : > 50 kN

25 mm deformed bar inserted to depth 8 x diameter of bar : > 150 kN

14 mm threaded bolt inserted to depth 8 x diameter of bar : > 50 kN

25 mm threaded bolt inserted to depth 7 x diameter of bar : > 150 kN

AVAILABILITY

MEGAPOXY H and MEGAPOXY HT are available in 4 litre and 20 litre kits. In each kit the part "A" and part "B" are measured in correct mixing proportions for immediate use.