Revision date: 23/1/23

EPODURE EP600

High Strength Epoxy Anchor Adhesive

DESCRIPTION

EPODURE EP600 is a two-component epoxy chemical anchor system. Its unique formulation utilizing the latest covalent bond technology makes it suitable for deep embedment of steel, anchor bolts and reinforcement starter bars in critical load applications. It's superior bond to the substrate makes it particularly suitable for the use in diamond drilled holes. Once cured the adhesive is highly chemical resistant.

USES

EPODURE EP600 is particularly suited for the anchoring of holding down bolts and reinforcement starter bars in critical load situations. It is suitable for use on cracked concrete, it is also suitable for use in underwater applications.

ADVANTAGES

- Excellent bond strength and load resistance.
- Suitable for deep embedment applications.
- Suitable for application to diamond drilled holes.
- Close edge distance permitted.
- Suitable for use with all grades of threaded rod and rebar in accordance with TRO29.
- Independently tested.

Property	Value @ 24hrs Curing	Value @ 72hrs Curing
Tensile Strength	20 MPa	20 MPa
Compressive Strength	90 MPa	98 MPa
Flexural Strength	32 MPa	45 MPa
Flexural Modulus	2480	2920
E Modulus	5995	12025
VOC Content	A+ Rating	
Density	1.44	

CE 1404
Premcrete
2018
Epodure EP600 Rebar
ETA-19/0214
EAD 330087-00-0601
8mm - 40mm + Fire
Post Installed Rebar
1404 - CPR-3102

PROCEDURE

Surface Preparation: The hole should be drilled to the appropriate depth using a suitable sized drill bit. The hole must be free from all dust, debris and other deleterious material. An air pump should be used by inserting to the full depth of the hole before pumping at least 4 times, use an extension nozzle if required. The hole should then be brushed using a suitable pour hole brush, this bit should be carried out in a twisting motion, before removing and re-inserting 4 times. The hole should then be blown out again using the air pump at least 4 times.

Application: The nozzle of the cartridge should be inserted onto the tube. The cartridge should be inserted into the appropriate gun before extruding a minimum of 12ml of mixed material. This should be discarded before pumping the resin into the hole. It is important to ensure that the process is carried out before applying resin from a new tube. EPODURE EP600 should be injected to the back of the hole slowly withdrawing the nozzle as the hole fills. The threaded road or reinforcement bar should be inserted into the hole, twisting slowly as it is inserted, to ensure maximum bond to the steel. It is important to leave the grouted component undisturbed until sufficiently cured.

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CURING TIMES

Temperature	Working Time	Cure Time in Dry Concrete	Cure Time in Wet Concrete
5^0C	100 mins	40 hrs	80 hrs
15^0C	60 mins	24 hrs	48 hrs
25^0C	40 mins	11 hrs	22 hrs
35^0C	25 mins	9 hrs	18 hrs
40^0C	20 mins	8 hrs	16 hrs

PACKAGING & COVERAGE

Pack Size: EPODURE EP600 is supplied in 400ml cartridges, there are 12 cartridges per box.

STORAGE & SHELF LIFE

EPODURE EP600 should be stored in unopened containers at temperatures between 6^0C and 30^0C. When stored in unopened containers, it will have a shelf life of 12 months.

HEALTH & SAFETY

See separate material safety datasheet.