polywed
CONSTRUCTION CHEMICALS
بولي وود
كيماويات البناء

E5

EPOXY MORTAR

High Performance, Three component epoxy adhesive anchor system and mortar

EPOXY | PRIMER | CLEAR EPOXY

Adhesive anchor system has been specially formulated as a high performance, three epoxy component adhesive anchor system for threaded rods and reinforcing bars in uncracked concrete to suit transport applications. also can used as mortar with high thickness .

USES

- As a fast curing anchoring adhesive for all grades of: Rebars / reinforcing steel
- Threaded rods
- Bolts and special fastening systems Concrete
- Hollow and solid masonry Mortar for high thickness.

ADVANTAGES

- Fast curing
- Standard guns can be used
- Can be used at low temperatures High load capacity
- Non-sag, even overhead Low wastage

PRECAUTION

Health and Safety
Is non-hazardous. However, it should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles should be worn. Splashes on the skin should be removed with water. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately. Do not inducevomiting.

PACKAGING

1 and 5 KG set

CLEANING

Clean all tools and application equipment immediately after use. Hardened and/or cured material can only be removed mechanically.

TECHNICAL PROPERTIES

Color	Sandy Beige
Density @25oC,kg/ltr	1.76±0.02
Pot lifemin@25oC	35±5
Adhesion to concrete (concretefailure)N/mm2	>1.5
Tensile Strength N/ mm2@7days	15±0.5
Flexural Strength N/ mm2@7days	24±0.5
Compressive strength, N/ mm@7days	75±1
Slant Shear strength, N/ mm@7days	25±5

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APPLICATION INSTRUCTION

- Drilling of hole with an electric drill to the diameter and depth required. Drill hole diameter must be in accordance with anchor size.
- The drill hole must be cleaned with a blow pump or by compressed air, starting from the bottom of the hole.
- The drill hole must be thoroughly cleaned with the special steel brush.
- The drill hole must be cleaned with a blow pump or by compressed air, starting from the bottom of the hole.
- Mixing Part A + part B + part C Inject the adhesive into the hole.
- Insert the anchor with a rotary motion into the filled drill hole. Some adhesive must come out of the hole.
- During the resin hardening time the anchor must not be moved or loaded.

HOLE DEPTH FACTORS

Hole depth depends on more than one factor:

- Concrete compressive strength
- Steel rebar grade (tensile strength) Ultimate design axial load Concrete section depth
- Steel rebar diameter
- Each factor of the mentioned above is affecting the hole depth in different way. The concrete compressive strength is reversely affecting the hole depth i.e. the higher the compressive strength, the less the required hole depth for the same ultimate axial load, etc.
- For critical structural usage of POLYWED ANCHOR, we recommend going through pull off test to settle the right anchoring depth.

ANCHORING PARAMETERS

Hole diameter is all the time related to the embedded steel rebar diameter.

The following table shows that relation which shows obviously the bigger the rebar diameter, the bigger the excess of the hole diameter, and that to give more tolerance for steel notches to be inserted easily.

Rebar diameter (mm)	Hole diameter (mm)
from 6 - 16	Rebar diameter + 4
from 18 - 32	Rebar diameter + 6
over 32	Rebar diameter + 8

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