

Structural Thixotropic Epoxy Adhesive

PolyPoxy A25

HardStep®

▶ concept engineered floorings

Description

PolyPoxy A25 is a thixotropic multi purpose structural epoxy adhesive used for vertical and horizontal rebars and dowels anchoring into concrete and stone as well as a repairing mortar for concrete, and can also be used for other epoxy bonding surface applications..

Key Features

- Extended pot life
- Paste thixotropic consistency ideal for vertical and horizontal repairs of concrete
- Dense system increases chemical resistance
- Maximum impact and abrasion resistance
- Easy to Mix
- No shrinkage (100% solid content)
- High strength
- Excellent adherence on concrete, mortar, wood, stone, ceramic and metal
- waterproofing characteristic after curing

Uses

- Fixation of dowels, bolts, and starter bars into concrete and stone.
- structural repair mortar for concrete for both vertical and horizontal works.
- Joints, edges repairs, cracks and superficial imperfections on architectural structures.

Technical Properties

Color	Grey
Density	1.8 ± 0.05 kg/l dry density
Bond Strength	> 4.6 N/mm ² at 23 °C
Adhesion Strength	5.9 N/mm ² at 23 °C
Compressive Strength	1 day > 34 N/mm ² at 23 °C
	7 days > 43 N/mm ² at 23 °C
	9 days > 48 N/mm ² at 23 °C
Flexural Strength	> 13 N/mm ² at 23 °C
Tensile Strength	6 N/mm ² at 23 °C
Elongation	> 2.5% at 23 °C

Standards

Conforms to **ASTM C-881**, Types I and IV, Grade-3, Class-B&C

Conforms to **AASHTO M-235**.

Application Instructions

Substrate Quality & Preparation:

Hardened mortar and concrete must be older than 28 days. The substrate surface must be clean, dry or mat damp (no standing water) and free from contaminants such as dirt, oil, grease, existing surface treatments and coatings etc. Steel substrates must be de-rusted to a condition similar to Sa 2.5. The substrate must be sound and all loose or friable particles must be removed.

It is preferred that concrete or any other hardened mineral substrates to receive **PolyPoxy A25** is prepared by suitable means such as blast cleaning.

Mixing:

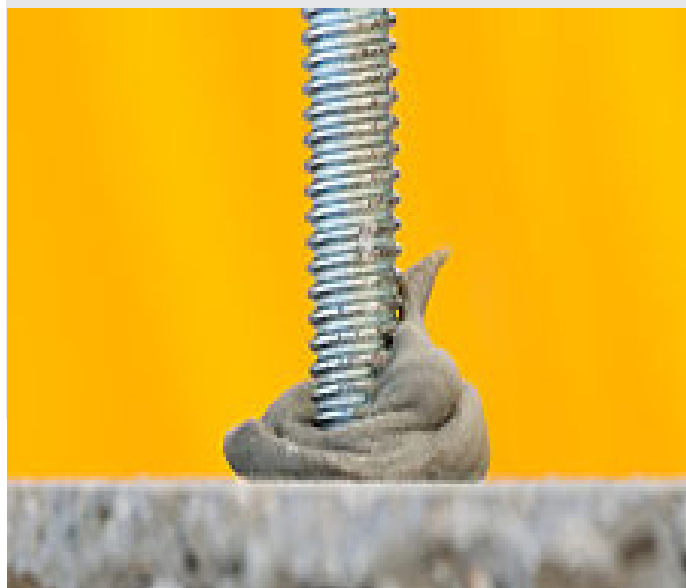
- Mix components (B+H) together for two minutes manually or mechanically until the material becomes smooth in consistency and uniform in colour.

• DO NOT PART MIX .

Application:

In case of Anchoring: Install a measured amount of adhesive into the back or bottom of the hole, and over the immersed part of the steel rebar, then insert it to displace the adhesive toward the front or top of the hole. Secure anchor in the center of the hole, and remove excess material.

In case of Repair : Apply the mixed paste to the surfaces needed to be repaired or filled with a trowel or spatula.



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Storage & Packing

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Available in 5 kg. kit (2 component)

Shelf Life

Shelf life is up to 12 months when stored as per recommendations.

Health and safety

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.



Legal Notes

The information provided in this data sheet, are given in good faith based on our current knowledge and experience of the product when properly stored, and applied by professional applicator, and under normal conditions in accordance with the mentioned recommendations. In practice under actual site condition differences are such that no warranty can be issued nor any liability can be taken, arising out of any legal relationship whatsoever. The product must be tested onsite to check its suitability for the intended application and purpose

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PolyCem
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FlexSeal

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®

 **Office** :39 Makram Ebied , Nasr City , Cairo

 **Factory** : Block 7/4 Arab Engineer Industrial Area , Cairo

www.polybit.co