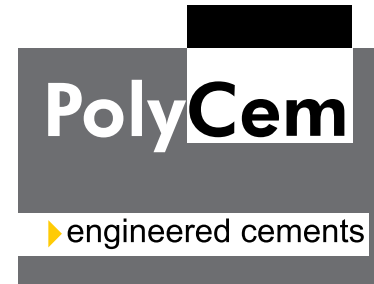


Structural Grade Repairing Mortar

PolyRep S



Description

PolyRep S is polymer modified, non shrinking, cementitious lightweight repair mortar, when mixed with water forms a trowelable mortar, which is suitable for application on vertical and overhead concrete surfaces. The product is free of chlorides and lime though suitable for structural repairs.

Uses

- Repairing damaged, weak & de-bonded concrete.
- Repairing Honey combed concrete and R.C.C. sections after de-shuttering.
- Patch work repair on horizontal, vertical and overhead surfaces.
- Crack filler for concrete.
- Replacement of concrete suffering from attack of chlorides or sulphates.

Features

- Shrinkage compensating.
- Excellent compressive strength.
- Good adhesion on prepared surfaces.
- Excellent Durability, low permeability and weather proof.
- High build, non slumping.

Technical Properties

Color and appearance	Grey Powder
Density	1.85 g/cc (when mixed)
Pot Life	35 minutes. at 25 C
Compressive strength	> 40 N/mm ² after 28 days
Adhesion strength	> 1.5 N/mm ² after 28 days
Flexural strength	> 6 N/mm ² after 28 days
Bond Shear Strength	> 20 N/mm ² after 28 days

Above data have been tested in accordance to the British Standards (BS 6319: part 2 & 6) and with a water to powder ratio of 0.16.

Application Instructions

Surface preparation: Clean all the surface well and remove any loose particles, laitance, dust, oil, grease, paint etc. Abrade the bond area to improve mechanical bond. The decayed or damaged area should be saw cut, keeping the sides of the area as square as possible. Loose materials must be removed carefully using suitable means such as sharp tools or chipping hammer. If the reinforcement is corroded make sure that the back of the steel is completely exposed. Then clean the steel to bright metal condition.

Priming: On completion of the cleaning, prime the clean reinforcement steel using Zinc rich primer (**PolyPoxy ZR**), For Concrete surfaces its recommended to apply a bonding coat using **PolyLatex 48** or **PolyPoxy DB** before applying the repairing mortar. To avoid any depending problems **PolyRep S** should be applied Whilst the primer is still tacky.

Mixing & Placing: Apply the mortar mix and compact well. Application can be done with trowel or a rubber hand glove to paste the material in place. The product can be applied to desired thicknesses in layers on vertical and overhead surfaces. High build application can be achieved by using a formwork. While applying multiple layers, the previous layer should be cross hatched and allowed to set before applying the next coat. **PolyRep S** can be applied to a thickness of 50 mm in one single application if the ambient temperature is less than 25°C and the weather conditions are normal (no strong winds and low humidity) as this would result in rapid moisture evaporation.

Curing: Due to the presence of rapid drying polymers, the repaired area shall be cured in accordance with good concrete curing practice and protected from drying winds. Curing shall be done by non degradable type of curing compounds **PolyCure R** or wet hessian cloth. When cured with wet hessian cloth, the area shall be covered immediately with a high density polyethylene sheet which shall be taped to all edges.

Cleaning: Clean all tools with water immediately after use.

Coverage / Yield

25 kg of PolyRep S yields approx. 15.7 liters

Using water to powder ratio of 0.16

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 25 kg.

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

PolyBit


HardStep
concept engineered floorings

PolyCem
engineered cements

FlexSeal

PolyInCrete
tailored concrete

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

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

www.polybit.co