

POLY BOND SM

Cementations System Polymer Modifier And Bonding Agent

Product Description

POLYBOND SM is a butadiene styrene copolymer latex admixture that is designed as an integral non-reemulsifiable adhesive for cementations mortars & concrete, to improve their waterproofing and chemical resistance.

Typical Application

- Concrete repair.
- Waterproof renders and slurry.
- Concrete cementitious floor leveling.
- Bonding of slip bricks and tiles.
- Bonding plaster to steel surfaces & fair face concrete.
- Bonding new to old concrete.

Product Features

- Adhesion: improves bond strength to concrete, stonework, plaster & block work.
- Waterproof: improves durability & waterproofing properties of concrete & plaster.
- Flexibility: reduces cracking by increasing cementitious mortar flexibility.
- Strength: highly improves compressive strength of cementitious mortar & Concrete.
- Non toxic: can be used in contact with potable water.

Standards

POLY BOND SM complies with ASTM C 1059 - 86 for Bonding Fresh to Hardened Concrete.

Properties

Physical Properties

Form Liquid.

Color

Milky White.

Specific Gravity

1.00

Toxicity

Non toxic.

Mechanical Properties

The addition of POLY BOND SM to cementations mortar, improves its mechanical properties.

For a control mix of 3: 1 Sand: Cement, the following improvements were achieved when adding 10 lit POLY BOND SM per 50kg. cement.

Compressive Strength N/mm²

Control mix: 26.00

POLY BOND SM mix: 34.00

Tensile Strength N/mm²

Control mix: 3.00

POLY BOND SM mix: 4.50

Flexural Strength N/mm²

Control mix: 6.50

POLY BOND SM mix: 10.25

Adhesion N/mm²

Control mix: 3.00

POLY BOND SM mix: 20.00

Shrinkage %

Control mix: 7 %

POLY BOND SM mix: 3 %

Chemical Properties

The addition of POLY BOND SM to cementations mortar reduces permeability dramatically and increases mortar resistance to aggressive environments.

Guide For Application

Preparation

Prepare a good clean structural surface for bonding by removing all loose materials, old mortars & laitance.

Traces of oil, grease & curing compounds should be removed by chipping out the affected area of concrete. Finally sweep or blow off the surface to remove dust which could cause de bonding.

Priming

Areas should be pre- wetted but free standing water should be removed.

Apply a slurry coat of **POLY BOND SM** to the prepared area.

Mixing

Mix dry ingredients with the required amount of water before adding **POLY BOND SM**, as shown in Table A.

Placing

Place **POLY BOND SM** cementations mortar / concrete while primer is still wet.

Do not hard trowel or over finish;

Easily float the surface to reach a final finish.

Curing

We recommend the use of **POLY CURE RB I** for curing.

Cleaning

Tools should be cleaned immediately with water after use.

Packaging

POLY BOND SM is supplied in 20 lit. Pails and 220 lit. Drums.

Storage

POLY BOND SM should be stored in shaded areas.

Shelf Live

One year when stored as recommended.

Health and safety

POLY BOND SM is non flammable.

- Any splashes on skin should be washed with water.
- Seek medical assistance in case of contact with eyes, after washing it with plenty of water.

Guarantee / Warranty

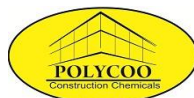
We warrant our products to be of good quality and manufactured to rigid standards. This warranty is in lieu of any and all other warranties expressed or implied.

This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose.

POLYCOO services are free and the company dose not accepts liability for any loss arising from it.

Technical Services

For any further technical advice and recommendation for the use of all **POLYCOO** products, please consult the nearest **POLYCOO** technical office.



Under technical collaboration with

Polycoo Industries Ltd.

Sole distributor in Egypt: Polycoo Company

www.polycoo.com

5 Kamel Sedki Street, Ramsis Square, Cairo, Egypt

Sales Tel.: ++202-5918653/++2025918053/++20-122-3102700 Fax: ++202-5918053