

SBR Co-Polymer Based Bonding Agent

PolyLatex 48

HardStep

▶ concept engineered floorings

Description

PolyLatex 48 is an SBR co-polymer based product, used in mortar and concrete as an admixture and bonding agent to increase water resistance and durability.

Uses

- Bonding: for bonding new concrete to old, tile bedding and fixing of slip brick.
- Waterproofing internally: Basements, swimming pools, potable water tanks and towers, sludge tanks and ducts, tunnels and underpasses, computer and plant rooms.
- Waterproof bonding: Bricks slips, Copings, pre-cast tread and rises.
- Waterproofing suspended floors: Patio areas, walkways and balconies, floors for wet areas, plant rooms.
- Waterproof / Protective slurries: Potable water, sewage and mild chemical holding tanks, porous concrete, block work or brick work, long term protection reinforcement or friable concrete soffits.
- Waterproof non-slip finishes: Car decks, walkways, balconies, and staircases.

Key Features

- Excellent bond, flexural and tensile strength.
- Extreme resistance to water and water vapour.
- Good abrasion and chemical resistance.
- Thin-screed which are water and water vapour proof.
- Low water/cement ratio.
- Compatible with all types of cement.
- Reduces shrinkage.
- Improved flexibility.
- Increases durability and toughness.
- Reduces shrinkage.
- Prevent bleeding.
- Excellent adhesion to asphalt, brick and wood.
- Can be used with potable water.

Technical Properties & Standards

Base Material : Styrene Butadiene Emulsion

PH Value: 8 ± 0.5

Specific Gravity: 1.01 ± 0.02

Tensile strength: Up to 6.5 N/mm²

dependent on cement used and workability

Flexural strength: Up to 13 N/mm²

dependent on cement used and workability.

Service Temp.: - 20o C to 60o C

Application Instructions

Materials and ratios

Surface preparation: Surface should be clean, sound and free of loose substances. Remove all laitance, oil, grease, mould oil or curing compound. Ensure that the reinforcement steel (if present) is clean and free from grease or oil, remove scale and rust.

Bonding slurry: preparing bonding slurry requires mixing 2 parts of cement to 1 part of **PolyLatex 48**. Mix thoroughly till having a lump free creamy consistency. Work the bonding slurry over a pre-damped surface only.

Do not apply bonding slurry at thickness in excess of 2mm. If a second coat must be applied at right angles to the first to ensure complete coverage. 25 kg of **PolyLatex 48** mixed with 50 kg of cement would cover 30 m² approx. depending on the thickness applied and the substrate.

Materials and ratios: sand used in **PolyLatex 48** modified mortars should be sharp, washed, well graded and free from excessive fines. Concerning the cement, **PolyLatex 48** is compatible with all types of OPC, sulphates resisting and high alumina cements. However with high alumina cement, hardening will be delayed. As for the water, the strong plasticizing action of **PolyLatex 48** greatly reduces the water cement ratio for any given workability. for any given workability the standard dose of **PolyLatex 48** is 5 kg for every 5 kg of cement. And for that same quantity of cement 100 kg of sand would be sufficient. Water is then added to adjust the consistency of the mix.

For best results render with **PolyLatex 48** modified mortar immediately after the bonding slurry is applied. Apply in coats to a maximum thickness several coats can be applied at intervals of 20-30 minutes. Proper curing for **PolyLatex 48** modified mortars is important.

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.

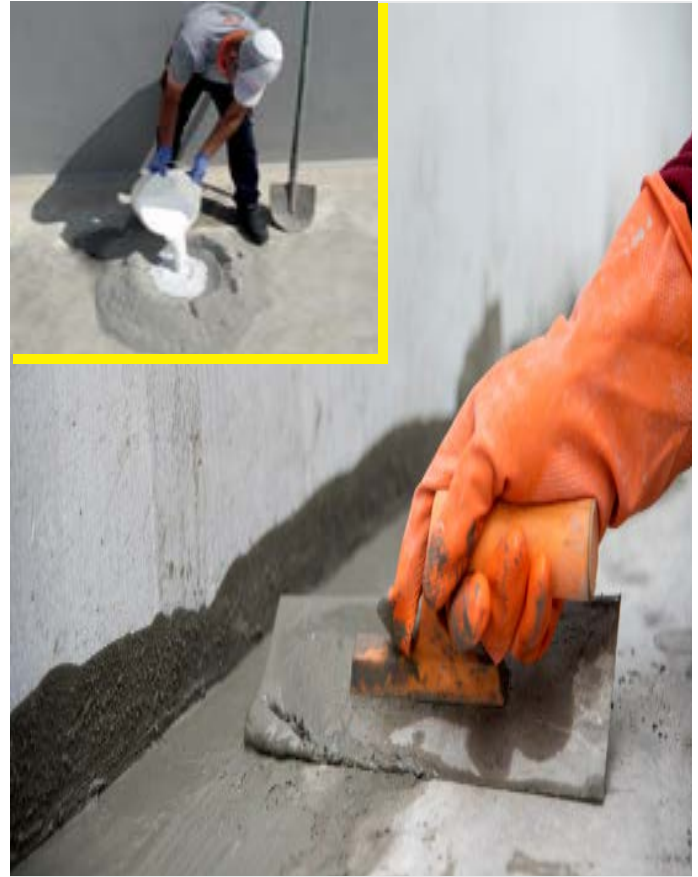
Available in 1 kg, 5 kg and 20 kg packs

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
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