HIPPO CHEM

Waterproofing Concrete Adhesive

Waterproofing Concrete Adhesive is an acrylic-resin-based product used for waterproofing the walls and floors of all kinds of cement and agricultural pools, as an affordable alternative to bitumen waterproofing membranes (isogam) and nano waterproofing materials. It is also a good option for increasing the adhesion of tile, ceramic and stone installation slurry, and for improving the application of various building mortars, such as polymeric sealing coatings, gypsum and cement plastering or skim coating, and repairs before damp-proofing, using both traditional and modern methods. By mixing a specified amount of liquid waterproofing concrete adhesive with mixtures such as white cement and grout powder, old and new tile joints can be re-grouted, sealed and waterproofed without any need for demolition. The special compounds of this adhesive are such that, after drying, it turns into a flexible, water-insoluble coating and acts as a waterproof coating.

Features

- Strengthens adhesion and provides waterproofing properties in all types of ceramic tile adhesives, grouts and joint-filling mortars
- Adhesion promoter in the mix design for thin-layer substrate preparation of flooring and for epoxy, polyurethane and acrylic paints
- Repair of cracks and correction of honeycombed concrete; repair and rehabilitation of damaged concrete in old structures, such as bridge piers

Applications

- Preparing polymer mortar for building façade finishing and cement plastering of walls in humid environments such as bathrooms and balconies
- Roof slope-screed mortar, skim coating of pools, tanks and concrete water reservoirs before applying two-component damp-proofing
- As a primer for better bonding of old concrete (or any cementitious surface) to a new coating and fresh concrete

Method of use: To bond new concrete to old concrete, for repair work, and for preparing skim-coat mortar for pool waterproofing, make sure the substrate is free of loose areas and of any contamination, grease, oil and paint. A polymer slurry prepared by combining 1 part by weight of waterproofing adhesive, 1 part by weight of water and 4 parts by weight of cement can be used to bond new concrete to old. Cement mortar modified with the adhesive can be applied to concrete and brick surfaces up to a maximum thickness of 1.5 cm. If a greater thickness is required, the operation must be repeated at intervals of at least 4 hours. After the work is completed, the surface must be kept away from direct sunlight and kept moist for 5 days. For internal waterproofing of concrete, the adhesive can be mixed with part of the mixing water at a ratio of 3 parts by volume of adhesive to 2 parts by volume of water, and added to the ready-mixed concrete; make sure to mix for at least one minute per cubic meter of concrete. To make a concrete waterproofing primer, combine 1 part by volume of adhesive with 3 parts by volume of water; the prepared waterproofing primer is then applied to the target surface with a brush or roller.

Dosage: The typical dosage of this product when added to concrete for internal waterproofing is generally 6 to 10 percent of the cement weight; when added to repair mortar, 6 to 9 percent by weight; and when added to concrete to increase adhesion to old concrete and reduce permeability, 6 to 10 percent of the cement weight.

Property	Result
Physical state	Liquid
Color	Milky
Density	1.04 ± 0.02 g/cm³
pH	8.5 ± 0.5

Test	Result
Adhesion between concrete surface and modified mortar (ASTM C1404)	Greater than 2.0 MPa
Adhesion of new concrete to old (ASTM C1404)	Greater than 3.5 MPa
28-day compressive strength increase (ASTM C109), relative to reference mortar	10 to 30 percent
28-day adhesion strength increase (ASTM C1404), relative to reference mortar	20 to 80 percent

Packaging	10 kg container
Shelf life	One year in original packaging
Storage conditions	Protect from cold and frost, heat, and direct or prolonged sunlight
Recommended storage temperature	+5 to +35 °C

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