HIPPO CHEM

Strengthening Concrete Adhesive

Strengthening Concrete Adhesive is an emulsion-resin-based product used for stabilizing, reinforcing, strengthening and increasing the consistency of the components of various Hebelex (AAC block) mortars, tile-setting slurry, and tile and ceramic grouting, and for increasing the adhesion of concrete or of new mortar to old concrete when concreting is resumed to complete a half-finished concrete section after setting, as well as in grouting operations and surface repair. Polymer concrete adhesives disperse easily in gypsum and in water–cement mixtures.

Features

- Increases the adhesion of various types of concrete and mortar
- Reduces permeability
- Increases flexibility
- Prevents cracking and bulging
- Improves resistance against aggressive environmental agents
- Increases adhesion between mortar components
- Increases tensile and flexural strength
- Reduces cracking by retaining moisture in the mortar structure

Applications

- Stabilizing cementitious and gypsum substrate materials and creating a bond between new concrete or mortar and old surfaces
- Improving the adhesion of repair mortar to damaged concrete surfaces, and filling joints and cracks in walls, ceilings and floors
- Improving the durability of concrete and of tile and ceramic adhesives, stone, mosaic and brick, inside and outside buildings
- Primer for subsequent operations on exposed concrete surfaces

Method of use: To bond new concrete to old concrete and for use in repair work, make sure the substrate is free of loose areas and of any contamination, grease, oil and paint. Apply one layer of the concrete adhesive to the old concrete surface or damaged section. Add the specified amount of adhesive to the repair mortar or fresh concrete, then apply it over the old concrete surface or damaged section. 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.

Dosage: The typical dosage of this product when added to concrete for internal waterproofing and strengthening is generally 5 to 12 percent of the cement weight; when added to repair mortar, 5 to 8 percent by weight; and when added to concrete to increase adhesion to old concrete and reduce permeability, 8 to 12 percent of the cement weight.

Property	Result
Physical state	Liquid
Color	White emulsion
Density	1.06 ± 0.02 g/cm³
pH	5.5 ± 0.5
Chloride ion content	Below the maximum permitted by the standard

Packaging	20 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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