



ChlorSil

Integral Concrete and Mortar Water Repellant

Description:

This product is composed of a complex chemical alkoxsiloxane admixture which provides integral water repellent properties for concrete and mortars subjected to aggressive salt and moisture environments. When properly dosed, this admixture does not affect the concrete strength development and it is effective on mortar top coats that will be left exposed to prevent mold, mildew and water damage.

Uses:

This product is used on balconies, patios, sidewalks, and anywhere there is new gray or colored concrete poured to produce an integral lasting moisture repellent structure that is clean and resistant to the elements and moisture damage. It preserves metal reinforcement from chloride attack and produces a more effective barrier than topical applied repellants. It can also be used for the installation of masonry units and glass blocks. When used in smaller dosages it will eliminate surface efflorescence in products such as pavers, roof tiles, statuary, and many other concrete uses.

Limitations:

Once repellency is established, surfaces become hydrophobic and difficult to bond water based materials. Some acrylic fortified products can resolve the bonding of tiles and flooring systems but testing is strongly advised prior to completing the installation. Repellency develops in 5 to 7 days. Do not use to reduce steel cover on water exposed mass concrete subjected to significant head pressures.

Dosages:

Add one gallon of concentrate per cubic yard of 3000 psi concrete containing at least 470 or more pounds of Portland cement. Normal dosage for mortars is of 20 to 25 ounces per sack of Portland cement based on the cementitious part only.

Packaging:

Supplied in cases of 4/1 gallon bottles and 5 gallon pails.

Clean-up:

Clean up spills by using absorbent media and disposing according to local rules.

Product safety:

Avoid spilling product into sewers, drains and storm systems. Use adequate skin and eye protection and wear a respirator when handling. Avoid contact with eyes and mucous membranes and seek immediate medical attention if there is an accidental ingestion or vapor mist inhalation; do not induce vomiting.

Compliance:

Request extensive testing document available. Is recommended to produce a complete concrete sample for testing ahead of production and installation to establish correct dosage test data results including compressive and flexural values according to mix design target. Used in Masonry and compressed concrete products, product results are limited to elimination of efflorescence and absorption values.

Technical Data

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