



#1075 Masonry Strengthener

Inorganic Mineral Binder and Adhesive for Deteriorating Masonry Surfaces

Chemical Description

PermaTint Masonry Strengthener 1075 is a water-based penetrating silicate binder containing lithium salts.

Mode of Action

PermaTint Masonry Strengthener 1075 has excellent capability to penetrate deeply into pores and cracks of mineral/masonry building materials (stone, concrete, bricks, blocks, precast concrete and stucco). The lithium silicate reactive binder transforms on contact with CO₂ and multi-valent metals into water resistant, heat stable and acid resistant silica compounds. PermaTint Masonry Strengthener 1075 acts on porous mineral/masonry substrates as a solidifier by silification, initially forming a silica gel, which continues to harden, stabilizing previously unstable or cracked masonry building material, without reduction of water vapour permeability.

Product Specification

SOLIDS CONTENT	CA. 22%
DENSITY @ 20° C	CA. 1.18G/CM3
PH	11.4
VISCOSITY @ 20° C	CA.< 20MPAS

Properties

- Water-based inorganic solution with low alkaline content
- Superior wetting and penetrating abilities
- Forms water and acid resistant gels that consolidate unstable/crumblly substrates
- Does not cause efflorescence
- Good stability in storage
- Solvent/biocide free
- Non-flammable
- Odourless-Zero VOC
- 100% Breathable
- Can be diluted with demineralized water up to 50% by volume for very hard or low absorption substrates i.e. polished concrete
- Seek manufacturer's instructions before diluting
- Not prone to microbial infestation

Disclaimer:

All directions in this technical data sheet are given in good faith to help you to achieve the desired results. However due to unpredictable circumstances no legal liability can be based on this content. By purchasing this product, the user assumes full responsibility for testing its suitability for the intended purpose including any consequential liability arising from its use. The manufacturer's liability is limited to the replacement of faulty product.

Range of Application

PermaTint Masonry Strengthener 1075 is used to solidify and preserve porous natural and artificial stone substrates, concrete, historic plasters and mortars, bricks, blocks, precast concrete and stucco. Depending on the porosity of the substrate, PermaTint Masonry Strengthener 1075 can be diluted with demineralized water up to 50% by volume in the case of very dense substrates. Seek manufacturer's instructions before diluting. The surface of the building material must be open-pored (absorbent), dust free and dry. Protect all surfaces that are not being treated with PermaTint Masonry Strengthener 1075.

The application method can be dipping, brushing, spraying or flooding i.e. coat liberally until the substrate is saturated. Some substrates will absorb more than others, adjust accordingly. If applying multiple coats, the recoating time is 6-12 hours. Before large scale applications, test the suitability of the substrate. Wipe off excess material.

Application temperature is between 5°C and 30°C.

Clean all equipment immediately after use with water.

Handling PermaTint Masonry Strengthener 1075- wear protective goggles. Upon accidental eye contact, rinse eyes with ample amounts of water and see a medical professional.

Consumption or Coverage Rate

The quantity of PermaTint Masonry Strengthener 1075 required for proper saturation is highly dependent on the porosity of the substrate and subsequently its absorption level. It can range from 50 to 250 ft²/gallon. To determine coverage, test on a small area until the substrate is well saturated.

Subsequent Finishing

Allow one week for curing before applying sealers, paints or stains. Silicate based mineral paints and stains are the most compatible, however other types of paint may be used as well.

Storage

Store above freezing. Protect from excessive heat and direct sunlight. Do not store in aluminum or galvanized containers.

Hazard Notes

Non-Flammable: Non-hazardous for transport. Caustic Alkaline: Obey instructions in the SDS.