ULTRAKİM

NEVOSIL® SI 7100

Water Repellent for Construction Materials

Technical Data Sheet

NEVOSIL®

Characteristics

Solvent-free, water-dilutable silane/siloxane emulsion.

Properties

- ✓ Good depth of penetration
- ✓ High resistance to alkalis
- ✓ Water-based and environmentally compatible
- ✓ Rapid development of water repellency
- ✓ No impairment of the water vapour permeability of the applied surfaces
- ✓ Provides better adhesion for paints when used as primer

Application

NEVOSIL® SI 7100 is an excellent water-repellent for many absorbent mineral and even highly alkaline substrates such as bricks, concrete, sand-lime brick, natural sand-stone and mineral plasters. Besides, it may also serve as water-repellent primer for emulsion paints and plasters, silicone resin emulsion paints and silicone resin plasters, as well as for concrete coatings.

Thanks to its aqueous consistency and emulsion stability, NEVOSIL® SI 7100 is ideal for the impregnation of building materials made of clay, aerated concrete, sand-lime brick, fibrous cement, mineral fibers and lightweight aggregate.

NEVOSIL® SI 7100 reduces the capillary absorption of the building material's surfaces penetrated, but does not clog pores or capillaries. There is therefore no impairment of the material's ability to breathe.

Technical Data

Appearance	Milky White liquid
Active content (wt %)	~50
Density (23ºC) (g/ml)	~1,00
pH	6,0-8,0

* These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants with the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials.

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Processing

NEVOSIL® SI 7100 can be diluted with regular tap water for preparing solutions depending on the purpose or area of the application. If it is used as a water repellent primer, it is recommended to dilute the product at the ratio 1:4 to 1:9. In manufacture of building materials, NEVOSIL® SI 7100 could be diluted at 1:20 to 1:50 ratios for impregnation of materials. In any case, the ratio of dilution should be determined by trials on the material.

NEVOSIL® SI 7100 solution, which has been prepared and ready to use, should be applied without pressure, starting from the top to the bottom of the surface of application until fully saturated.

NEVOSIL® SI 7100 should be applied to mineral based construction materials at 2-3 times until the substrate fully saturated. Apply the next when the substrate has absorbed the previous one and is no longer shiny. The substrate must not have damp spots, i.e. it should look dry. Do not leave long breaks between coats.

During the application of NEVOSIL® SI 7100, it is recommended to cover windows and other non-absorbent surfaces properly. If any splashes on window panes, immediately wipe off by means of a solvent, otherwise permanent spots might form due to the fact that active components will react within 1 to 2 hours.

Storage / Shelf Life

NEVOSIL® SI 7100 has a shelf life up to 9 months if stored in tightly closed original containers between 5-35°C. If the material is kept beyond the shelf life recommended, it is not necessarily unusable, but quality control should be performed on the properties relevant to the application. The containers must be protected against sunlight and frost.

Packaging

30, 60, 120 and 220 kgs plastic drums or 1,000 kgs IBC containers.

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