



TIKKURILA

ALFAGEL 400

PROTECTIVE GEL

DESCRIPTION

Alkali-resistant silicone-based preservative that penetrates well into the substrate (SILKO-approved 3.252). Prevents the capillary penetration of precipitation and splash water into the structure. Lets humidity escape as vapor from inside the structure. Reduces the risk of frost damage and the build-up of salt on the structure's surface. Due to its paste-like consistency, the substance does not drip and can be spread as thick coats (in a single application) even on vertical surfaces and the bottom surfaces of bridge structures.

RECOMMENDED USES For the protection of concrete, brick-faced precast concrete and exposed-aggregate surfaces.

PRODUCT FEATURES Facades of residential, commercial, industrial, storage and other buildings, bridge structures.



The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

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TECHNICAL DATA

Coverage	Approx. 2.5 to 5 m ² /kg.
Can sizes	25 kg, 162 kg
Thinner	Water Usually applied without dilution. However, if necessary, it can be diluted with water.
Application method	Apply with a spray gun, brush or roller. For spray application, use a nozzle diameter of 0.015–0.031", 10–15° angle and 20–80 bar pressure; make the final adjustments according to the surface.
Drying time	2 to 5 hours.
Density (kg/l)	0.9 kg/l, ISO 2811.
Weather resistance	Good.
Volume solids (%)	80
Penetration depth	9,1 - 11,4 mm (RH 70 %) 6,1 - 6,8 mm (RH 95 %)
Storage	Protect from frost. The storing temperature should not exceed +30 °C.

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APPLICATION INSTRUCTIONS

Application conditions

The surface to be treated must be clean and dry, the ambient temperature at least +5 °C and the relative humidity of air below 80%.

Mixing components

Normally applied undiluted. Can be thinned with water if necessary, however.

Application

The surface must be sufficiently dried and hardened before the treatment.

Clean the surfaces of any dirt, dust and salt. Clean surfaces with mold, moss, etc. with Tikkurila Homeenpoisto in accordance with the instructions.

Apply Alfagel 400 protective gel evenly with a spray gun (airless). The product can also be applied with a brush or roller. Depending on the porosity of the substrate, up to 400 g/m² of Alfagel 400 protective gel can be applied in one coat, but 200 g/m² will normally be enough to protect the surface.

High vertical surfaces should be treated from the bottom up.

Wipe any spatter immediately from windows, or protect the windows before starting work.

Cleaning of tools

Clean tools with water or Tikkurila Pensselipesu (Tool Cleaner). Wash tools immediately with water and detergent.

Maintenance instructions

Dirty surfaces can be cleaned gently with a pressure washer and no detergent.

Remove algae or mold with Tikkurila Homeenpoisto and rinse thoroughly. NOTE! The surface must always be treated again after mold removal.

Environmental protection and waste disposal

Destroy liquid waste according to the local regulations for hazardous waste. Recycle empty, dry cans or dispose them of in accordance with local regulations.

Health and Safety

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. Wear protective gloves. Safety data sheet available on request. Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (C(M)IT/MIT (3:1)). May produce an allergic reaction. This product contains a biocidal product for the preservation of the product during storage. Contains: C(M)IT/MIT (3:1).

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EN 1504-2:2004

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Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
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TIK-1710-5001	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Hydrophobic Impregnation.	
Resistance against freeze-thaw salt stress	fulfils the requirement
Depth of penetration	Class II: ≥ 10 mm
Release of dangerous substances	NPD
Water absorption and resistance to alkali test for hydrophobic impregnation	absorption ratio < 7.5 % compared with the untreated specimen absorption ratio < 10 % after immersion in alkali solution
Drying rate for hydrophobic impregnation	Class I: > 30 %

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