

AQUAPEL-S

Micro-emulsion water-salt repellent for concrete surfaces

DESCRIPTION

AQUAPEL-S is a new generation, 100% reactive, solvent based silicon dioxide poly-condensated sealer. AQUAPEL-S penetrates the surface and chemically bonds directly with the substrate, resulting in a surface that is highly resistant to both moisture and salt. AQUAPEL-S's unique formulation offers permanent, invisible, non-yellowing protection. AQUAPEL-S's accelerated chemical reaction with the natural minerals in the substrate produces a stable and predictable hydrophobic surface, within seven to ten days after application.

AQUAPEL-S is useful for increased long-term protection on porous concrete, elevated structural concrete slabs, and on normal concrete with severe exposure to salt and water.

USES

AQUAPEL-S effectively protects buildings, parking decks, monuments, and virtually all concrete surfaces. It offers positive salt screening in northern, as well as southern climates. Its formula minimises corrosion of reinforced steel and protects concrete from the damaging effects of de-icer chemicals, road salts, and other chemicals. Successful field and lab performances make it ideal for walkways, stairs, parking decks, garages, driveways, dams, piers, bus and truck terminals, on both pre-cast and pre-stress concrete. Other uses include architectural concrete, stamped concrete, brick pavers and exposed aggregate surfaces (Sassotitalia).

FEATURES AND BENEFITS

- Effectively stops moisture and salt migration
- Deeply penetrates substrate for long-term hydrophobic protection
- Easy and quick installation.
- Ready-to-use formulation

TECHNICAL INFORMATION

Water Absorption Reduction, % min.	85%
Chloride Intrusion Reduction, % min.	90%
Depth of Penetration (Depending upon substrate porosity)	2-4 mm
ASTM C 672, scaling test	No scaling

INSTALLATION

Preparation

Concrete must be structurally sound and clean of all dirt, laitance, contaminants, oil, existing coatings or membrane and curing compounds (both through chemical or mechanical means). Unsound concrete needs to be removed and the deteriorated area needs to be prepared. Caulking and sealant materials must cure for a minimum of 12 hours before applying AQUAPEL-S.

New Concrete

Apply non-residual curing compound, L&M CURE, or water cure fresh concrete for best results. Allow concrete to cure for a minimum of 21 days before applying AQUAPEL-S. Remove surface laitance and other contaminants through pressure washing.

Stamped Concrete

It can be applied onto Stamped Concrete for a better protection from salt and ice. Allow concrete to cure for a minimum of 7-10 days before applying AQUAPEL-S. Apply 1 coat (150-200 grams/m²) then after 6-8 hours, apply 1-2 coats of IDEAL SEALER REGULAR, sealer for stamped concrete.

Installation

Stir AQUAPEL-S before using, to disperse active ingredients. Do not dilute. Apply AQUAPEL-S directly from sealed containers using low pressure spray with fan nozzle, roller or bristle broom. Apply in a single, uniform, saturating application. Broom out all visible puddles. On extremely porous substrates, two coats may be necessary. Apply second coat as soon as surface drying of first coat has become visible.

Clean Up

Clean up equipment with a solvent and for dry materials use mineral spirit.

Note

Approximately seven to ten (7-10) days after application, surfaces treated with AQUAPEL-S will develop full, long-term water repellent properties.

COVERAGE RATE

The coverage is:

- Porous and broomed surfaces: 250-350 g/m²
- Smooth concrete: 200-250 g/m².
- On hard troweled, polished surfaces treated with Ideal Hard: 150-200 g/m².

Additional coats may be necessary under certain porous conditions.

PRECAUTIONS

Applicators should wear rubber gloves and eye protection. Protect glass, plastic products, shrubbery, and plant life from overspray by masking, using drop cloths, tarps, etc. Do not allow overspray to remain on these materials beyond the working day. Avoid contact with all food stuffs.

Protect containers from direct sunlight, rain, and freezing. AQUAPEL-S is destroyed by freezing. Please refer to the material safety data sheet (MSDS) for more detailed information.

LIMITATIONS

AQUAPEL-S should not be applied if air, product, and/or surface temperature are below 4°C or above 28°C. Avoid application if precipitation is expected with 8 hours, or if rain has preceded the application in the past 24 hours.

AQUAPEL-S is not intended for below grade waterproofing.

Over application of AQUAPEL-S may cause a slight darkening of the surface. Avoid application in high winds.

PACKAGING AND STORAGE

AQUAPEL-S is packaged ready-to-use in 25 litre pails. The shelf life for unopened containers is 12 months.

AQUAPEL-S containers are to be kept tightly sealed. Store above 5°C and the shelf life is one year when contained in factory-sealed containers.

IMPORTANT:

All information contained herein is based on the best practical and laboratory. It's to the customer to determine that the product is suitable for the application they want to. The manufacturer assumes no responsibility for the results of incorrect applications. You should always test on a small area before application. This card replaces the previous. The data can be changed at any time. Also note that the products are intended for professional use Ideal Work Ideal Work provides training and that of their regular customers who request it. Anyone using these products without being enabled, you do so at your own risk.

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