

TKK CLEAN PROTECT AQUASTOP NATURAL STONE

Silicone water-repellent impregnation for marble and unglazed ceramics

AREA OF USE

Aquastop Natural Stone is a colourless liquid based on silane-siloxanes and special additives in organic solvent for the final protection of porous [absorbent] inorganic materials against water and moisture. Because of its high absorbency, it penetrates deep into the pores of the material and, after the solvent evaporates, forms an invisible impregnation of the surface with no film formation.

Water-repellent impregnations are most effective on surfaces where water can drain, so they are most often used to protect vertical and sloping surfaces, or surfaces with a 3-5 % slope. Protected surfaces retain their ability to "breathe" and remain vapour-permeable.

Water-repellent impregnations do not offer protection against pressurised water and are therefore not suitable for pool protection, do not bridge cracks wider than the hairline and do not seal poorly bonded parts.

Aquastop Natural Stone can be used to protect a variety of mineral surfaces, but is most commonly used to protect:

- facades made of natural or artificial stone or concrete,
- window sills, table tops, or monuments made of natural or artificial stone,
- natural or artificial stone flooring or unglazed ceramic tiles.

The advantage of Aquastop Natural Stone compared to other impregnations is that it has an oleophobic-oil-repellent effect in addition to its hydrophobic-water-repellent effect. Therefore, grease, oil, paint stains, etc. can be easily removed from surfaces protected with Aquastop Natural Stone.

We recommend that the sample surface is protected before using Aquastop Natural Stone.

TECHNICAL CHARACTERISTICS

Characteristic	Declared value
Appearance	Colourless to slightly yellow clear liquid with a characteristic odour
Density, 20 °C	(0.80 ± 0.03) kg/L



INSTRUCTIONS FOR USE

Surface preparation

The surfaces to which Aquastop Natural Stone is to be applied must be cleaned of dust and grease stains. They must be compact and free of poorly bonded parts, damage, and cracks that cannot be repaired through impregnation.

It is advised to apply hydrophobic impregnation to an air dried or slightly moist surface. The surface must not be saturated with water, as this reduces the absorbency of the material. The surface must also be free from standing water. Moisturising the surface before applying Aquastop Natural Stone is recommended in the event of a prolonged dry period with high temperatures and/or wind. In this case, the surface shall be moistened 12 to 24 hours before Aquastop Natural Stone is applied. This way, the surface is kept dry and there is enough moisture in the capillaries to allow the Aquastop Natural Stone to penetrate deeply and react. If it has rained for 1 day prior to the application of the impregnation, or if there is a high proportion of air moisture in the air, e.g., more than 85 %, the surface should not be wetted.

Before applying hydrophobic impregnation, we must protect all surfaces that will not be impregnated [wood, glass, aluminium, etc.] to avoid damage and staining.

Application

The method of application depends on the porosity and position of the surface to be protected.

- Protect poorly absorbent surfaces such as granite with a soft cloth by soaking the cloth in Aquastop Natural Stone and then just wiping the surface.
- Protect paving bricks, natural and artificial stone with a brush or spray nozzle [e.g. for fruit].
- Vertical surfaces are treated from the bottom to the top. Apply enough impregnation to run for about 15 cm over the previously treated surface before being absorbed.

Curing

For at least 24 hours, freshly coated surfaces must be protected from rain, precipitation, and freezing.

Cleaning of work accessories

After completing the work, all tools and work accessories are cleaned with white spirit or thinner.

ADDITIONAL RECOMMENDATIONS AND WARNINGS

- The recommended application temperature is between +5 °C and +30 °C.
- If Aquastop Natural Stone is used indoors, good ventilation must be ensured.
- Do not apply a hydrophobic impregnation if rain is imminent or if the relative humidity is greater than 85 %.
- Due to possible discolouration of the coloured surfaces, we recommend testing on a test surface.

CONSUMPTION

Consumption depends on the type, porosity, and roughness of the surface to be protected and is usually:

- for marble, double coat: 0.020 – 0.050 kg/m²
- for unglazed ceramics: 0.015 – 0.100 kg/m²
- for other materials: 0.20 – 0.50 kg/m²

PACKAGING

metal cans 0.5 L and 3 L

STORAGE

- Aquastop Natural Stone is a flammable liquid and should therefore be stored in warehouses that comply with the regulations for the storage of flammable liquids. Store the product in tightly sealed containers in a cool, dry, and airy location. Protect it from sources of ignition and heat, as well as direct sunlight.
- A properly stored product has a shelf life of at least 2 years after the date of manufacture.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

HEALTH, SAFETY AND ECOLOGY

When working with Aquastop Natural Stone, wear protective gloves, goggles and respiratory protection. Follow the general instructions for working with chemicals: take care of cleanliness, do not eat, drink or smoke while working. After finishing the work, wash hands thoroughly with soap and water.

More information on safe handling and disposal of the product is available in the safety data sheet, which is provided on request, and is also available from the dealer or distributor where you purchased the product.

WARNING

Instructions and recommendations are given based on examinations in our laboratories and experience to date. Due to the specific conditions and method of work, we recommend preliminary tests for each individual case of use.

Since we cannot influence the course of work, we cannot be held responsible for its quality!

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