

TECHNICAL DATA SHEET

DESCRIPTION

PRIME WATERBLOCK-300 is a colourless liquid based on silane-siloxanes 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

TYPICAL APPLICATIONS

Surfaces protected by hydrophobic impregnation do not absorb water and remain dry during rainfall, therefore:

- For materials protection such as brick, natural and artificial stone, plasters, concrete, foam concrete, gas concrete ...
- Improves thermal insulation.
- Prevents microorganism development.
- Prevents the transport of water-soluble salts (no material efflorescence).
- The appearance of the protected surfaces remains unchanged.

PRIME WATERBLOCK-300 is suitable for the protection of a wide range of materials such as: bricks, natural and artificial stone, plasters, concrete, foam concrete, gas concrete, etc.

APPLICATION PROCEDURE

• SURFACE PREPERATION

The surfaces to which PRIME WATERBLOCK-300 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 product. The surface must also be free from standing water. Moisturising the surface before applying PRIME WATERBLOCK-300 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 PRIME WATERBLOCK-300 is applied. This way, the surface is kept dry and there is enough moisture in the capillaries to allow the PRIME WATERBLOCK-300 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.

- Apply poorly absorbent surfaces such as granite with a soft cloth by soaking the cloth in PRIME WATERBLOCK-300 and then just wiping the surface
- Apply on 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

APPLICATION REMARKS

- The recommended application temperature is between +5 °C and +30 °C.
- Plasters and concretes to be protected must be at least 28 days old.
- If PRIME WATERBLOCK-300 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 %.
- We recommend performing a test on a test surface.

CONSUMPTION

Consumption depends on the type, porosity, and roughness of the surface to be protected and is usually:
from 0.2 to 0.5 kg per 1 square meter of surface

CLEANING

After the application, all tools should be cleaned with PRIME SOLVENT. Rollers and brushes should be disposed of.

PACKAGING AND COLOR

It is in 4 kg and 14 kg metal buckets.

STORAGE AND SHELF LIFE

The product can be stored for a maximum of 24 months in unopened original pack at temperatures between +5°C and +25°C. Opened product should be used at the soonest.

PRECAUTIONS

The product should be used in well ventilated environments. The product should not be in contact with open res. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. If the material comes into contact with eyes, it should be washed immediately with sufficient water. For more detailed information, ask for the Safety Data Sheet (MSDS) from PRIME technical department.

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HEALTH, SAFETY AND ECOLOGY

When working with PRIME WATERBLOCK-300, 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.

TECHNICAL DATA

Characteristic	Testing method	Declared value
Appearance	Visually.	Colourless liquid
Solid Content	EN ISO 2811-1	[0.80 - 0.02] kg/L

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Characteristic	Testing method	Testing method	Achived value
Depth of penetration	EN 1504-2, Table 3, pt.19	Class I: < 10 mm Class II: >10 mm	Class I: 14 mm
Drying rate coefficint	EN 13579	Class I: > 30% ClassII: > 10%	Class II
Water absorption and resistance to alkali	EN 13580	Absorption coefficient compared with the untreated specimen: < 7.5%	Complies
		Absorption coefficient compared with the untreated specimen after immersion in alkali solution: <10 %	Complies
Resistance to freeze-thaw-salt stress	EN 13581	The loss of mass of the impregnated surface may occur at least 20 cycles later than that of the unimpregnated test specimen.	Complies

DISCLAIMER

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