

WATER REPELLENT SOLUTION
Updated Oct'20


Water Repellent Solution is a solvent-based primer based on silane / siloxane mixture. It serves as high quality primer for exterior concrete protection and also can be used as an impregnating agent for masonry substrate. It can reduce the capillary absorption of construction materials without blocking their pores and capillaries. Therefore, it does not affect the diffusion permeability. As a result, water vapour can escape unhindered from the masonry, and any damp can dry out.

Product Features:

- Excellent depth of penetration, creating a broad water repellent zone beneath the topcoat
- Excellent resistance to alkaline and efflorescence – the hydrophobic zone prevents salt, water and alkaline being transported from within the wall to the surface
- Good water-vapour permeability, does not affect the breathing behaviour of the substrates
- Prevent damage caused by Chloride-induced reinforcement corrosion
- Good recoatability
- Increase paint adhesion
- Substrate reinforcement by digital network formation

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent based	Exterior	Clear	Masonry	5 Litres, 20 Litres

Composition

Pigment	: Not applicable
Binder	: Silane-siloxane mixture
Thinner	: Organic solvent

Technical Data

Drying Time	: 1 hour
Recoating Time	: 1 day
Dry Film Thickness	: Not applicable
No. of Coats	: 2 coats (wet on wet)
Theoretical Coverage	: 10 – 12 m ² per litre per coat (Actual coverage is dependent on substrate condition, application method, application condition and finishing appearance) <i>It is recommended to go for actual application to estimate the practical coverage for project</i>
Volume Solid	: Not applicable
Shelf Life	: Up to 12 months in tight sealed container

Application Method

Brush / Roller	: Apply 2 pass wet-on-wet
Flooding (by lower pressure spraying)	: Apply 2 pass wet-on-wet (Highly recommended for optimal paint film performance)

Recommended Coating System
Used as Impregnating Agent

Top Coat	: Water Repellent Solution	: 2 Pass
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Used as Sealer / Primer

Sealer / Primer	: Water Repellent Solution	: 2 Pass
Top Coat	: Durasil	: 2 Coats

Surface Preparation

Remove all powdery residues, loose chalk, dust, fungus, algae and foreign matter. Treat any areas affected by fungus growth with Fungicidal Wash Solution. Repair cracks, uneven surfaces with suitable exterior grade fillers. Smoothen the filler areas with sand paper. Surfaces to be painted must be cleaned thoroughly and dry, it must be free from dirt, grease and other foreign matters. Allow all surfaces to dry completely prior to painting. Avoid painting when the moisture content and alkalinity of the walls are still high. (Recommended painting specification requires the moisture content of the walls to be below 16% measured by protimeter and alkalinity of the walls to be below pH9.) Spot prime with Water Repellent Solution.

Cleaning

Clean up equipment with thinner immediately after use.

Safety Precautions

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose off any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness}} \right] = \text{m}^2/\text{lit}/\text{coat}$$

and does not consider LOSS FACTORS.

Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.

However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.

We reserve the right to alter the given without prior notice.