

## **PRODUCT INFORMATION**

### **PROTECTASILANE**

**Page 1 of 2**

**Manufacturer's Code:** RPPS

**Updated:** 01/01/2023

**Product Name:** PROTECTASILANE

**Description:** PROTECTASILANE is a high-quality silane water repellent impregnant for masonry building materials. The product is designed to deeply penetrate into the capillaries of masonry surfaces and render the substrate water repellent. This water repellent zone significantly reduces the absorption of water or efflorescence or other water-borne staining materials which are responsible for the bulk of the deterioration in masonry building materials. The treatment will not significantly change the appearance of the masonry substrates and the vapour permeability. However, a slight darkening of the surface may occur for some substrates.

**Recommended Uses:** PROTECTASILANE is recommended as a water repellent sealer for concrete and other porous masonry building substrates such as stones, bricks, and ceramic tiles and grout. Some of the important features of PROTECTASILANE include:

- Penetrates into masonry substrate surface.
- Permanently bonds to the substrate with no peel or blister.
- UV, alkali stable and durable formulation.
- Reduces water penetration, efflorescence and water-borne staining.
- Does not significantly change the surface appearance and vapour permeability.
- Easy application and cost effective.

As masonry materials vary significantly, a test **MUST** be carried out prior to application to find out the suitability of this product for the purpose.

**Use Instructions:** Application

Please read the product information for the correct application and safe handling. Do not apply if rain or extreme weather conditions are expected. The surface to be treated should be dry, firm and free from grime, oil and any previous coatings/sealers. If necessary, the surface should be washed with a suitable detergent in water and allowed to dry. All cracks should be filled with proper grouting materials and allowed to cure before application. A test prior to application is strongly recommended to determine the number of coats required and suitable consumption rate.

PROTECTASILANE can be applied using brush, roller or spray. However, the product is preferably applied by saturation flooding using a hand pressure spray or airless spray equipment. Enough materials should be applied onto the surface. For the vertical surface, the product should be applied as a liquid thin film stream which runs down the surface approximately 30-40cm. A second application should follow immediately after the first coat is absorbed by the surface. This is termed a "wet-in-wet" application. The object is to saturate the surface to allow a better penetration.

For horizontal surfaces, the product should be applied by flooding the surface for about 10 minutes to ensure the penetration of product into the surface. If the sealer is quickly absorbed by the substrate after the first application, a second coat may be required immediately. Any remaining liquid on the surface which has not been absorbed by the surface for 10 minutes should be removed to avoid any excessive accumulation of the sealer in surface areas which may cause an uneven finish.

The number of applications depends on the permeability of the substrate. Generally, for very dense surfaces one application may be enough but for permeable substrates, two or more coats "wet-in-wet" may be required.

Do not splash or spray the product onto any area you do not wish to treat. If splashing occurs the product should be removed with a cloth damped in a solvent such as mineral turpentine immediately.

#### Consumption rate

The consumption of PROTECTASILANE varies significantly depending on the permeability of the substrate. It may be of the order of 2-20 m<sup>2</sup> per litre per coat or could be out of this range significantly.

#### After application

The initial surface water repellency will develop after the surface is dry. Full curing may take 24 hours or up to 7 days. Avoid heavy traffic or any staining for at least 24 hours. The equipment can be washed in a solvent such as mineral turpentine.

#### Pilot testing and quality control

Due to the variation of building materials, it is strongly recommended that a pilot test on a small area on site should be conducted prior to application to find out the suitability of this product for the purpose.

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|----------------------|----------------------|--|
| <b>Typical Data:</b> | Appearance:          | Colourless liquid with hydrocarbon solvent odour |
|                      | Solids content:      | <50% by weight                                   |
|                      | Specific Gravity:    | 0.79g/ml at 20 °C                                |
|                      | pH value:            | Not allocated                                    |
|                      | Solubility in water: | Insoluble in water                               |
|                      | VOC content:         | >50%   |
|                      | Flash point:         | >61°C  |

**Important Note:** PROTECTASILANE penetrates into the capillaries and renders the surface water repellent while still leaving most of the capillaries open to allow water vapour to pass through. It reduces water absorption by capillary action. However, it has a limited resistance to water penetration particularly under prolonged contact or hydrostatic pressure. Therefore, in some cases where the substrate is very permeable or there is extreme wind driven rain, resistance to water penetration or water-borne staining may not be adequate.

**Handling & Storage:** PROTECTASILANE is a hazardous and combustible material. Refer to the material safety data sheet for safe handling. Follow good industrial hygiene procedures when using this product. Vapour inhalation and skin or eye contact should be avoided by wearing proper protection. Wear an air-purifying respirator if there is a risk of exposure to high vapour concentrations. Wash hands after handling. The product should be stored in closed containers in a cool dry place away from any fire and ignition sources. The product has a shelf life of 12 months in a sealed original container under 25°C.

**Use under sufficient ventilation away from any fire or ignition sources!**

**Keep out of reach of children!**

**Packaging:** PROTECTASILANE is available in 5, 20 and 200 litre metal drums & 1000 litre IBC.

#### **Disclaimer:**

The information given in this data sheet is based on many years of experience and is correct to the best of our knowledge. As the storage, handling and application of this material are beyond our control; we can only be responsible for the quality of our product at the time of dispatch. We reserve the right to alter certain product parameters within the spectrum of properties in order to keep abreast of technical advances. It is the responsibility of the end user to determine the suitability of this material for any particular application.