



# PROTECTASEAL

## Protection Against Staining

Protectaseal is a penetrating, invisible and breathable sealer that protects natural stones, pavers, concrete, terracotta tiles & grout from damaged caused by water and oil based stains.

Suitable for residential & commercial applications including facades, floors, pool surrounds, patios, garages, kitchens and entertaining areas.

Treated surfaces are easier to clean and look good for longer.



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# PROTECTASEAL-S PRODUCT INFORMATION

Manufacturer's Code: RPPSS. Updated: 17/10/2011

## Description

PROTECTASEAL-S is a user-friendly stain-resistant sealer for masonry materials. It uses mainly alcoholic solvent. The product is designed to penetrate into the masonry surfaces and render the substrate oil and water repellent. It provides good stain resistance against the majority of staining materials including oil, juice, coffee, and wine. The treatment will not significantly change the appearance and vapour permeability of the masonry. However, a slight darkening of the surface may occur for some substrates.

## Recommended Uses

PROTECTASEAL-S is recommended as a stain-resistant sealer for permeable building materials such as natural stones (sandstone, granite, travertine, etc), concrete pavers, clay bricks, and terracotta tiles. It may also be used for dense or polished substrates. Some of the important features of PROTECTASEAL-S include:

- » Penetrates into masonry substrate surfaces.
- » Hard wearing and durable formulation.
- » Excellent oil/water-repellent and stain resistant properties.
- » Does not significantly change the appearance and vapour permeability.
- » Contains mainly user-friendly alcoholic solvent.

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.

## Test & Performance

### 1. WATER REPELLENCY

Concrete pavers treated with PROTECTASEAL-S were subjected to capillary water absorption tests. The water absorption results of treated substrates were reduced by up to 80% compared to those of untreated samples.

### 2. OIL REPELLENCY

Vegetable oil droplet was placed on the surfaces of the concrete pavers treated with PROTECTASEAL-S. The oil droplets remained on the treated surface for more than 7 days. However, the oil droplet on the control paver was absorbed by the surface within 24 hours.

### 3. STAIN RESISTANCE

Stain resistance tests were carried out on concrete pavers, terracotta tiles and sandstone substrates using vegetable oil, ink and coffee. The stains left on the treated surfaces were found to be significantly reduced compared to those of untreated surfaces when the oil, ink and coffee were removed from the surface after 1 hour.

### 4. WEARING RESISTANCE

PROTECTASEAL-S has a significant wearing resistance. However, life expectancy of this sealer highly depends on substrate, traffic and weathering. Harsh cleaning, extreme weathering, heavy traffic and strong solvent may have a detrimental effect resulting in significantly reducing the life expectancy of this sealer.

## Use Instructions

Read the product information before application. Do not apply if extreme weather conditions are expected. The surface to be treated should be dry, firm and free from grime, oil and any previous coatings/sealers. All cracks should be filled and allowed to cure before application. A test prior to application is strongly recommended to assess the suitability of the product to the purpose.

PROTECTASEAL-S is best applied using a low-pressure hand spray. The product can be also applied using a clean brush or similar. The initial treated surface should have a mirror-like wet film appearance. After the 1st coat is absorbed by the surface or the surface becomes touch dry, apply the 2nd coat. Any remaining liquid on the surface for over 10 minutes should be removed to avoid excessive accumulation of the sealer, which may cause an uneven finish.

The number of applications depends on the permeability of the substrate. Two coats are enough for general substrate but more coatings may be required for very permeable substrate.

For smooth/polished surfaces, it may be necessary to polish the surface with a clean and white cloth to remove excess sealer residue to reveal the original surface finish. This may be done after surface becomes touch dry or within a few hours after application. Moistening the cloth with PROTECTASEAL-S may help to ease the polishing.

The consumption of PROTECTASEAL-S varies significantly in an order of 2-25 m<sup>2</sup> per litre per coat depending the permeability of the substrates or could be out of this range significantly.

The initial surface oil and water repellency will develop after the surface is completely dry. Full curing may take 24 hours or more. Avoid heavy traffic for 24 hours. The equipment can be washed in isopropanol or mineral turpentine.

## Typical Data

Appearance:	Colourless liquid with alcoholic odour
Specific Gravity:	0.8g/ml at 24°C
pH value:	Not allocated
Solubility in water:	Insoluble (soluble in isopropanol)
VOC content:	>50%
Flash point:	12°C

## Important Note

PROTECTASEAL-S penetrates into the capillaries and renders the surface oil/water repellent while still leaving the capillaries open to allow vapour to pass through. Therefore, prolonged contact of stains with the surface can still cause staining due to the open capillaries. Therefore, it is strongly recommended that stains should be removed from the contaminated surface as soon as possible to avoid possible permanent staining. The sealer will not prevent surface etching or wearing. PROTECTASEAL-S will make the maintenance and cleaning of a treated surface easier. General cleaning is applied should removing of surface stains is required. Avoid harsh cleaning.

## Handling & Storage

PROTECTASEAL-S is a hazardous and flammable material. Vapour inhalation and skin or eye contact should be avoided. Wear an air-purifying respirator if there is a risk of exposure to high vapour concentrations. Wash hands after handling. The product has a shelf life of 12 months in sealed containers under 25°C. However, the product is best used within 7 days after opening. Never contaminate the product with water or any form of moisture.

Product should be stored in a cool dry place away from fire or ignition sources.

Use with sufficient ventilation away from fire or ignition sources!

**KEEP OUT OF REACH OF CHILDREN!**

## Packaging

PROTECTASEAL-S is available in 1, 5, 20 and 200 litre metal drums.

## 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 is 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.