



PROTECTASEAL **W**

Protection Against Staining

Protectaseal-W is a water-based 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 and entertaining areas.

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



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PROTECTASEAL-W PRODUCT INFORMATION

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

Description

PROTECTASEAL-W is a water-based stain-resistant sealer for masonry materials. 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 change of the surface appearance may occur for some substrates.

Recommended Uses

PROTECTASEAL-W is recommended as a stain-resistant sealer for permeable building materials such as natural stone, concrete paver, clay brick, terracotta tile and grout. Some of the important features of PROTECTASEAL-W include:

- » Penetrates into masonry substrate surfaces.
- » Hard wearing and durable formulation.
- » Good oil/water-repellent and stain resistant properties.
- » Does not significantly change the appearance and vapour permeability.
- » Water-based product containing no 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-W 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-W. 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-W 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. **STIR WELL OR SHAKE BEFORE USE!**

PROTECTASEAL-W 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. When the 1st coat is absorbed by the surface, the 2nd coat should be applied immediately. This is called wet-on-wet application method to ensure enough material is applied to the surface to achieve deep penetration. Any remaining liquid on the surface for over 5 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 porous substrate.

PROTECTASEAL-W is best suitable for porous masonry substrate. For dense smooth/polished surfaces, a solvent-based stain resistant sealer such as Tech-Dry PROTECTASEAL-S is recommended.

The consumption of PROTECTASEAL-W varies significantly in an order of 2-25 m² 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 may develop after the surface is completely dry. Full curing may take up to 7 days or more. Avoid heavy traffic for 24 hours. Wash the equipment in water.

Typical Data

Appearance:	White emulsion with light alcoholic odour
Specific Gravity:	approx. 1g/ml at 20°C
pH value:	approx. 8
Solubility in water:	miscible in water
VOC content:	nil

Important Note

PROTECTASEAL-W 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-W 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-W is classified as a non-hazardous material according to the criteria of Worksafe Australia. However, as with all chemical products, good industrial hygiene procedures should be followed when using this product. The product should be stored in closed containers in a cool dry place away from any fire sources. The product has a shelf life of 6 months in a sealed container stored in a cool dry place away from fire or ignition sources at a temperature below 25°C.

Use with sufficient ventilation away from fire or ignition sources!

KEEP OUT OF REACH OF CHILDREN!

Packaging

PROTECTASEAL-W 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.

