TECH-DRY BUILDING PROTECTION SYSTEMS PTY. LTD.
ABN 62 922 836 289
177-179 Coventry Street,
South Melbourne, Victoria, 3205, Australia
Telephone: 61 3 9699 8202 (all hours)
Facsimile: 61 3 9696 3362
Website: www.techdry.com.au
E-mail: info@techdry.com.au

Tech-Dry®

PRODUCT INFORMATION

Manufacturer's Code: RPOWR **Updated:** 01/01/2008

Product Name: PROTECTA OWR

Description: PROTECTA OWR is a water-based stain resistant sealer for masonry building materials. The product is designed to penetrate into the capillaries of masonry surfaces and render the substrate oil and water repellent providing good stain resistance against the majority of staining including oil, juice, coffee, and wine. The treatment will not significantly change the appearance of the masonry substrates and the vapour permeability. However, a slight change of the surface appearance may occur for some substrates.

Recommended Uses: PROTECTA OWR is recommended as a stain-resistant or oil/water repellent sealer for porous masonry building substrates such as natural stones, concrete pavers, clay bricks, and unglazed terracotta tiles. For dense or smooth/polished masonry, we recommend the use of Tech-Dry PROTECTASEAL 1441. Some of the important features of PROTECTA OWR include:

- Penetrates into masonry substrate surfaces.
- Hard wearing and durable formulation.
- Excellent oil/water repellent and stain-resistant properties.
- Does not significantly change the surface appearance and vapour permeability.
- Water-based technology with no toxic solvent used.

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

Standard concrete pavers and clay bricks treated with PROTECTA OWR were subjected to sponge water absorption tests. The water absorption results of treated substrates were reduced by up to 95% compared to those of untreated samples.

2. Oil repellency

Vegetable oil droplets were placed on the surfaces of the concrete pavers treated with PROTECTA OWR. The oil droplets remained on the treated surface for more than 1 month. However, the oil droplets on the control paver were absorbed by the surface within an hour.

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

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

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 or temperature is below 10°C. The surface to be treated should be dry, firm and free from grime, oil and any previous coatings/sealers. All cracks should be filled with proper grout materials and allowed to cure before application. A test prior to application is strongly recommended to assess the suitability of the product to the purpose; to determine the number of coats required; and suitable consumption rate.

PROTECTA OWR can be applied using a brush, roller or low pressure sprayer. Enough material should be applied onto the surface. Any remaining liquid on the surface which has not been absorbed by the surface after more than 5-10 minutes should be removed to avoid any excessive accumulation of the sealer in areas which may cause an uneven finish.

The number of coats depends on the permeability of the substrate. If the material is quickly absorbed by the surface after the first application, a second coat is required. Generally for very dense surfaces one coat may be enough but for permeable substrate, two or more coats should be applied.

Consumption rate

The consumption of PROTECTA OWR varies significantly depending on the permeability of the substrate. It may be in the order of 5-40 m^2 per litre per coat or could be out of this range significantly.

After application

The initial surface oil and water repellency will develop after 24 hours. Full curing may take up to 7 days. Avoid heavy traffic for at least 24 hours. Remove any splashes with a damp cloth before the sealer dries. The equipment can be washed in water.

Typical Data:

Appearance:	Milky white emulsion
Solids content:	<50% by weight
Specific Gravity:	1.0 g/ml at 24 °C
pH value:	7-8
Solubility in water:	Miscible
VOC content:	Nil
Flash point:	Not allocated

Important Note:

PROTECTA OWR penetrates into the capillaries and renders the surface oil/water repellent while still leaving most of the capillaries open to allow water 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.

Handling & Storage:

PROTECTA OWR is a non hazardous material. However, as with all chemical products, good industrial hygiene procedures should be followed when using this product. Refer to the material safety data sheet for safe handling. Vapour inhalation and skin or eye contact should be avoided by wearing proper protection. Wash hands after handling. **Keep out of reach of children!**

PROTECTA OWR has a limited shelf life of 6 months and should be stored under 25°C in a closed un-contaminated container away from any fire and ignition sources. The product should be used within the use-by-date. However, if the product has passed its use-by-date, a quality control test should be performed on the properties relevant to the application or otherwise contact the manufacturer for further advice.

Packaging:

PROTECTA OWR is available in 5, 20 and 200 litre plastic drums.