

PRODUCT INFORMATION

TIMBER WATER REPELLENT

Page 1 of 4

Manufacturer's Code: RPLENTWR

Updated: 17/12/2018

Product Name: TIMBER WATER REPELLENT

Description: TIMBER WATER REPELLENT is a water-based user-friendly silane/siloxane emulsion. TIMBER WATER REPELLENT is used as a water repellent sealer for treating neutral substrates such as wood, fabric/paper or masonry materials. It penetrates into the capillaries of the permeable substrates forming a water repellent zone within the treated surface. This water repellent zone significantly reduces the absorption of water which is responsible for most of the deterioration of substrates.

Recommended Uses: TIMBER WATER REPELLENT is recommended as a water repellent sealer for treating permeable neutral substrates including treated pine fence or other outdoor wood/timber, fabric/paper, natural stone, polymer render and masonry materials. Some of the important features of TIMBER WATER REPELLENT include:

- Excellent water repellent effect against water damage
- Water-based, non-toxic, and non-caustic formulation.
- No film forming and bonds to the substrate with no peeling.
- UV, alkali stable and durable formulation.
- Reduces water absorption and water-borne staining.
- No significant change in surface appearance and vapour permeability.

Use Instructions: **As Penetrating Water Repellent Sealer**

1. Application

TIMBER WATER REPELLENT may be applied using brush, roller or spray. However, the product is preferably applied by a hand spray or airless spray equipment. Avoid direct contact of application equipment with the surface.

Enough material should be applied onto the surface. For a vertical surface, a second application should follow **immediately** after the first coat is absorbed by the surface. This is termed a "wet-in-wet" application. This is to saturate the surface to allow better absorption and penetration. For horizontal surfaces, one flood coat application may be adequate. If the sealer is instantly absorbed by the substrate, a second coat may be applied **immediately** while the surface is still wet. Any remaining liquid on the surface which has not been absorbed by the surface after a few minutes should be removed. This is to avoid excessive accumulation of the sealer which may cause an uneven finish or contamination in the area.

The number of applications depends on the permeability of the substrate. For a dense surface, one or two "wet-in-wet" applications are adequate, but for very permeable substrates, multiple coats "wet-in-wet" may be required.

Always shake/stir TIMBER WATER REPELLENT before use. Mask off windows, doors or any areas you do not wish to treat. If accidental splashing occurs the product should be removed with a damp cloth **immediately** after application to avoid possible permanent surface change.

2. Consumption rate

The consumption rate of approximately 5 square meters per litre depends on the permeability of the substrate. For very permeable surfaces, higher consumption rate is required. However, dense substrates require lower consumption rates.

3. After application

The surface beading will develop immediately after drying, however, a better water repellent effect will develop in 24 hours and could take up to 7 days for full curing. Avoid heavy traffic for 24 hours. Wash equipment **immediately** in water after use.

4. Pilot testing

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

5. Performance

Photos in Fig 1 below show that a good water repellent effect has developed on pine fence boards treated with TIMBER WATER REPELLENT.

Fig 1. Teated pine fence coated with TIMBER WATER REPELLENT
(left: coated with Timber Water Repellent; right: control)



Photos in Fig 2 show natural weathering results of a treated pine fence protected by TIMBER WATER REPELLENT over 4 years under Australian (Melbourne) weathering conditions. The treated pine fence coated with TIMBER WATER REPELLENT showed excellent resistance against natural weathering compared to that of control.

Fig 2. Natural weathering of treated pine fence over 4 years
(left: coated with Timber Water Repellent; right: control)



Typical Data:	Appearance:	White emulsion
	Solids content:	<50% by weight
	Specific Gravity:	ca. 1.0 g/ml at 20°C
	pH value:	7-9
	Solubility in water:	dispersible in water
	VOC content:	Nil

Important Note: TIMBER WATER REPELLENT penetrates into the capillaries and renders the surface water repellent while leaving the capillaries open and allowing water vapour to evaporate. 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 in extreme wind driven rain, resistance to water or water-borne staining may be limited.

Handling & Storage: TIMBER WATER REPELLENT is a water-based, user-friendly product classified as a non-hazardous material according to the criteria of Work Safe Australia. However, as with all chemical products, good industrial hygiene procedures should be followed when using this product. The product should be stored in a closed container in a cool dry place away from any fire sources. The product has a shelf life of 12 months in a sealed container stored at a temperature below 25°C.

Use under sufficient ventilation. Keep out of reach of children!

Packaging: TIMBER WATER REPELLENT is available in 20, 200 and 1,000 litre plastic containers.

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.