



# PRODUCT DATASHEET

## TIMBERSEAL

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**MANUFACTURER'S CODE:** TS1-1000

**UPDATED:** 12-06-2023

**PRODUCT NAME:** TIMBERSEAL

**DESCRIPTION:** TIMBERSEAL is a water-based user-friendly silane/siloxane emulsion for treating outdoor timber. It penetrates into the cellular structure of the timber, rendering the timber surface water repellent. TIMBERSEAL significantly reduces the absorption of water which is responsible for the bulk of the deterioration of timber substrates.

**RECOMMENDED USES:** TIMBERSEAL is recommended as a water repellent sealer for outdoor timber. It may also be used to treat other neutral substrates such as fabric/paper, permeable stone, and polymer renders.

Some of the important features of TIMBERSEAL include:

- Fast water beading effect after application
- Reduces the growth of moss, lichen and algae
- Significantly slows the silvering effect, particularly on softwoods
- Water-based, non-toxic, and non-caustic formulation.
- Bonds to the substrate with no peeling.
- UV, alkali stable and durable formulation.
- Reduces water absorption and water-borne staining.
- Does not significantly change the surface appearance or vapour permeability.

**USE INSTRUCTIONS:** Read this product data sheet before use. Do not apply if adverse weather conditions are expected. Clean the surface and allow it to dry before applying TIMBERSEAL. The drier the timber is at the time of application, the deeper the product will penetrate and the longer the water repellent effect will last. Always shake or stir TIMBERSEAL before application.

Mask off window, doors or any areas you do not wish to treat. If accidental splashing occurs the product should be removed with a damp cloth **immediately** to avoid contamination.

### **Application**

TIMBERSEAL may be applied using brush, roller or low-pressure sprayer, however, the product is preferably applied by saturation application using a low-pressure sprayer or airless spray equipment to avoid direct contact of application equipment with the surface. Do not use air compressed spray units, as the atomisation of the product can lead to harmful aspiration.

For vertical surfaces, a second application should follow **immediately** after the first coat is absorbed by the surface. This is termed a "wet-on-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 absorbed by the substrate within the first few minutes, 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 5 minutes should be removed. This is to avoid excessive accumulation of the sealer in any area which may cause an uneven finish or glazing effect. The number of applications depends on the permeability of the substrate. For a dense surface, one or two "wet-on-wet" applications is adequate, but for very permeable substrates, two or more coats "wet-on-wet" may be required.

DO NOT apply TIMBERSEAL over a substrate that has already been treated and allowed to dry. The dried treatment will prevent penetration of subsequent coats.

### **Consumption rate**

The consumption rate depends on the permeability of the substrate. For general purpose treatment, it may be in the order of 2 - 8 m<sup>2</sup> per litre per coat, however the consumption rate may vary out of this range for very dense or porous substrates. A test is highly recommended to determine the precise consumption rate.

### **After application**

Instant surface beading will develop immediately after the product has dried. Better water repellent effect will develop in 24 hours and a full cure could take up to seven days. Avoid heavy traffic for 24 hours. Wash equipment in water **immediately** after use.

### **Pilot testing**

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

The photograph below shows that a good water repellent effect has developed on weathered pine fence boards treated with TIMBERSEAL. (left: treated; right: control).

#### Pine fence boards treated with TIMBERSEAL



<b>TYPICAL DATA:</b>	Appearance:	White emulsion
	Solids content:	<50% by weight
	Specific Gravity:	1.0 g/ml at 20°C
	pH value:	7-9
	Solubility in water:	Dispersible in water
	VOC content:	Nil

**IMPORTANT NOTE:** TIMBERSEAL penetrates into the cellular structure of the timber and renders the surface water repellent while still leaving the capillaries open and allowing water vapour to evaporate. It reduces water absorption by capillary action. 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:** TIMBERSEAL is a water-based, non-toxic, non-caustic and user-friendly product classified as a non-hazardous material. 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 in well-ventilated areas!**

**Keep out of reach of children!**

**Do not ingest or aspirate!**

**PACKAGING:** TIMBERSEAL is available in 1, 5, 20, 200 and 1,000 litre plastic containers. TIMBERSEAL bulk concentrate is also available to trade customers. Please contact Red Wolf for further details.

**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.