

# TWA Clear Water Repellant

## USES

TWA CLEAR WATER REPELLANT (CWR) is an oil based penetrating coating for protection of timber from the effects of wetting and weathering in exterior applications.

Timber protected with CWR will have an improved resistance to warping, splitting, cracking, and weathering, therefore maintaining the beauty and serviceability of exterior timber structures such as decks, furniture, cladding, lattice and pergolas. CWR is specially formulated for use with CCA, Tanalith-E, ACQ and LOSP treated timber. It can also be used with normal untreated timbers such as Merbau, Cypress, and Jarrah in exterior applications. Once dry, timber treated with CWR is safe to use in virtually any typical outdoor application. CWR is generally recommended for exterior use only.

## MODE OF ACTION

CWR penetrates deeply to form a water repellant envelope around the timber. This envelope repels water and maintains a lower and more stable moisture content in the timber. Since fluctuation of moisture content is the main cause of dimensional instability CWR will greatly reduce splitting, warping and checking. Ultra violet light present in sunlight interacts directly with the cellulose and lignin polymers in timber. The polymer chains are broken down and in combination with other forms of weathering will form a rough and powdery surface. The colour of the timber will be degraded. CWR will not prevent some bleaching but it will prevent the surface erosion and roughening. The grey stains and spots that occur on timber are mainly due to moulds. Moulds do not do significant physical damage to timber but the stains are unsightly and can be very difficult to remove.

## COMPATIBILITY & PROPERTIES

CWR may be used as a sealant and foundation for other surface coatings. It is directly compatible with other alkyd or oil based paints and stains. However as CWR is a water repellant some problems may be encountered when using acrylic or other water based products over CWR. If this type of product is required first coat over the CWR with an oil based primer. In all cases where overcoating with another product is required:

Use only one coat of CWR.

Allow CWR to dry for at least three days. Check for adhesion first in an inconspicuous place.

When used as above CWR will improve the performance of other surface coatings. As other surface coatings will impede or prevent penetration, it is not recommended to apply CWR over other products such as acrylics or estapols.

## Properties

Density:	0.83kg/L at 20°C
Flash Point:	>64°C
Odour:	Mild Petroleum
Viscosity:	25cp

## DIRECTIONS FOR USE

### General

TWA – CLEAR WATER REPELLANT is intended to protect and enhance the beauty of decking, fencing, cladding, furniture, lattice, windows, pergolas and many other examples of fine exterior timber constructions. It is the ideal complement for CCA, Tanalith-E, ACQ & LOSP treated timbers.

Many **hardwoods** particularly when new may be difficult for the CWR to penetrate, this may cause drying and surface problems. In these cases it is recommended to allow the timber to season for a period of 3-6 months until satisfactory penetration and drying can occur. An alternative is to apply a diluted solution of CWR (50:50% Mineral Turps), wipe off any excess after 24 hours, leave for 3-6 months and then apply another full strength coat of CWR. Always test brush in a small area or on off-cuts before doing the full area.

### **Product Preparation**

Mix thoroughly before use to ensure solids and pigments are evenly distributed. Pigment may be settled and compacted after extended shelf storage. Thinning is not normally required. However, if the product does not readily absorb, (to new dressed timber, hardwoods or during cold weather), thinning with mineral turps may assist penetration. Normally 1 or 2 parts of turps to 10 parts of product will be sufficient. The total number of coats may need to be adjusted to achieve the desired properties.

### **Surface Preparation**

New timber should be dry and free from dirt, sawdust etc. Old or weathered timber should be treated with TWA WOODBRITE prior to CWR for best results. Even new timber that is watermarked and dirty will benefit from a treatment with TWA WOODBRITE. (Please ensure that the timber has thoroughly dried after this). In order to work properly CWR must penetrate, therefore the timber surface should be reasonably dry before application. A drop of water should absorb readily. If not, the timber is not dry enough and should be left for a few more days. (this step is irrelevant for additional coats.)

### **Application**

TWA CLEAR WATER REPELLANT can be applied by brush, roller or dip methods. (Ensure adequate ventilation during use and avoid a proximity to heat sources or open flame.) Dipping application may require back brushing for an even appearance.

**Do not use the product if rain is expected within 24 hours of application.**

Work it into the timber grain with only a moderately full brush. To get maximum penetration and benefit DO NOT apply CWR in direct sunlight or onto a hot surface. Similarly do not apply in very cold weather (>15°C) or very hot weather – above 25°C. Decant into small containers for use rather than leave the main container open for long periods. Stir occasionally during use. **Coverage** will depend greatly on the timber type and its condition but will generally be in the range of **4 to 8 square metres per litre**. Coverage will improve with second and third coats. The surface will be touch dry after 2 hours, however leave for 24 hours between coats and before use. If possible with new timber wait for one week before applying additional coats.

**Clean up with mineral turpentine or paint thinner.**

### **Result of Application**

TWA CLEAR WATER REPELLANT will enhance the grain and colour and may darken some timbers (eg Western Red Cedar). On treated pine in particular the effect will be a warmer golden hue that may darken with exposure.

### **Recommendations and Re-Application**

Two coats at least should be applied to exterior timbers. For best protection and results all surfaces (including underside of decks), should be coated before joining and after cutting or machining. Obviously this will not be possible in many cases. However where possible give special attention to endgrain joints and interfaces. With non durable timber, eg. Oregon, TWA GENERAL PURPOSE WOOD PRESERVATIVE should be used for the first coat. This will improve the life of the stain and help produce a more even and smooth finish.

Re-application periods will depend heavily on the degree of exposure and severity of local conditions. Furthermore certain timbers may require heavier or more frequent re-application than others.

Generally, re-application should be done 12-18 months. Re-applications should need only one coat. In all cases the user should note the following signs that indicate re-application may be required.

1. Loss of water repellancy
2. Heavy bleaching or greying of timber
3. Surface checks and cracks in timber

A range of tint packs are available for rejuvenating the colour of the timber, see your stockist.

## **PRECAUTIONS**

### **Health and Safety**

Wood preservatives are toxic and should be handled in accordance with the MSDS (Material Safety Data Sheet). Care should be taken to avoid contact with the skin, breathing of any vapour, contact with foodstuffs and oral ingestion. Personal hygiene should be observed at all times. The use of naked lights, smoking etc must be prohibited.

### **Handling the Product**

TWA CLEAR WATER REPELLANT is a solvent based product. Gloves should be used to avoid possible irritation and drying of the skin. Do not use the product where there is poor ventilation as the solvent vapours may cause headache, dizziness and nausea. . When painting overhead, glasses should be worn to protect against dripping into the eyes. In the unlikely event that the product is swallowed DO NOT induce vomiting. Give a glass of water or milk and get immediate medical aid.

## **STORAGE**

Like all household and industrial chemical products CWR should be stored in a secure place out of reach of children and away from heat sources or direct sunlight. Store in the original container with the lid tightly closed.

## **TRANSPORT**

UN No 1263 paint

## **PACKAGING**

2 litre can  
4 litre can  
10 litre drum

Contact distributor for details.

## **TECHNICAL SERVICE**

TWA provides a technical advisory service on all aspects of timber protection.