

WOODLAND REPEL (FOR TIMBER CLADDING)

TDS04-2005

DESCRIPTION	An environmentally friendly, VOC free, water based stain treatment for bare timber, which provides lasting water repellency and protection.
TYPICAL USES	An impregnation treatment for bare timber to give lasting protection against moisture penetration and mould/mildew growth. Available in a range of attractive semi-transparent colours
PERFORMANCE	A premium silane/siloxane treatment, which penetrates and chemically bonds with timber, providing a hydrophobic matrix which prevents water penetration. Available in a range of semi-transparent stain colours which will provide a good level of protection from timber degradation due to UV. This technology is a significant departure from traditional oil stain products which merely seal the surface, providing a physical barrier which slowly erodes away. REPEL forms strong chemical bonds with the timber fibres both at, and beneath the surface, to provide a deep layer of protection against water ingress.
LIMITATIONS	REPEL is not intended for application to sealed surfaces. Not recommended for use un-tinted as a clear coat, as will not prevent discoloration and breakdown of timber due to UV. Do not use on decks as surfaces will be very slippery when wet. Requires re-application every 2-3 years. Do not apply if air or surface temperature is below 10oC, or if rain is imminent.
TECHNICAL DATA	Resin: Silane/siloxane emulsion Solvent: Water Appearance: Opaque when not tinted Colour: Standard and selected stain matches Primer: Self-Priming impregnation coating Thining and Clean Up: Water Pack Size: 1,4,10 L VOC: 0 Vol Solids: 11.4 percent Touch Dry: 15 to 30 minutes @20°C Recoat Time: Before coat 1 is touch dry Number of Coats: 2 Theoretical Coverage: 5 m²/litre/coat Wet Film Thickness: 100 microns Dry Film Thickness: 11 microns
AVAILABLE FINISHES	Sheen Satin
SPREAD RATE	First Coat: 5 - m²/litre/coat Second Coat: 10 - m²/litre/coat Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.
PRODUCT CODES	04-2005.01, .04, .10

SURFACE PREPARATION Timber Dressed -New Unpainted STAINING

All surface contaminants must be removed leaving the surface clean of dirt, grease and any other form of contamination. Ensure the timber is dry and has a moisture content of less than 15% before application.

Inspect the substrate prior to applying any coating system to ensure there is no surface defects.

DEFECTS: Repair or fill as required, taking care to use a filler of similar tone to the timber, prior to applying first coat.

Sand all surfaces to be painted to an even flat smooth finish to provide a good key for the new paint system. Dust down and wipe with a damp cloth to remove all dust. Allow to dry.

MIXING INSTRUCTIONS Stir product thoroughly with a wide paddle prior to, and during application.**APPLICATION PREVIOUSLY STAINED TIMBER:**

Timber which has previously been stained must be well aged and thoroughly sanded to open the surface prior to application of product.

Alternatively, TRUPREP PAINT REMOVER can be used to remove old stain from rough sawn surfaces (and assist in preparation) where sanding is not practicable. Check TDS for application details.

SPRAY

Recommend an airless unit. Pressure 2,500psi max and a tip 515-619. Can be applied with a garden sprayer to smaller areas. Product needs working into the substrate so back brushing or rolling may assist penetration. Contact Cotec Technical prior to spraying.

BRUSH/ROLLER

Apply liberally with a good quality brush. Maintain a wet edge during application, to avoid lap marks. If using a roller, use a 5-10mm nap Dacron roller. Maintain a wet edge during application, to avoid lap marks

APPLICATION NOTES Stir product thoroughly with a wide paddle prior to, and during application.

Apply REPEL liberally until surface is saturated. If a further coat is required, this must be applied before the previous coat has dried, otherwise the subsequent coat will be repelled due to the hydrophobic nature of the product.

REPEL is best applied by coating 2 – 3 metres and then as soon as the first coat starts to dry, apply a second coat working from the start of the first coat then move on to the next area to be stained etc. Work along boards and work to breaks to avoid lapping.

The area being stained with the first coat will vary in size before having to start the second coat depending on the temperature at the time of application. Hot days will mean smaller area at a time as the stain will dry more quickly, cooler days will mean larger areas can be done at once.

Recoat before the first coat is touch dry. Coating after this can lead to the Second coat beading and not forming a continuous film.

ENVIRONMENTAL This formulation uses the latest technology with low toxicity, ensuring environmental issues are not compromised. DO NOT POUR paint or wash down storm water or water courses. ALWAYS dispose of in accordance with local Government regulations. Soak up spills with absorbent material and dispose of properly. If spraying use suitable respiratory protection. Refer to the MATERIAL SAFETY DATA SHEET**COATING TECHNOLOGIES LIMITED**

10 Andromeda Crescent, East Tamaki, Auckland 2013 Ph +64 9 837 0897 www.cotec.co.nz

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