



High Performance Paint Product Data Sheet



REPEL (FOR WOOD)

MAR 20



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: Not recommended for use un-tinted as a clear coat, as will not prevent discoloration and breakdown of timber due to UV. Requires re-application every 2-3 years. Do not apply if air or surface temperature is below 10°C, or if rain is imminent.

TECHNICAL DATA:

Resin:	Silane/siloxane emulsion
Solvent:	Water
Finish:	Natural
Colour:	In a range of semi-transparent Stain colours
Touch Dry (minimum):	15-30 minutes @ 20°C
Recoat Time (minimum):	Before the first coat is touch dry. Coating after this can lead to the Second coat beading and not forming a continuous film.
Primer:	Self priming impregnation coating
Number of Coats:	2 usually required
Dry Film Thickness:	Not Applicable
Wet Film Thickness:	Not Applicable
Durability:	
Thinning and Clean Up:	Water
VOC:	0 g/litre
Pot Life:	Not Applicable
Pack Size:	1, 4, 10 Litre

SPREAD RATE:

Theoretical Coverage: 5-10 m²/litre/coat.
Coverage depends on surface profile and porosity.

COMPUTER CODES:

Repel clear base 04-2005

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SURFACE PREPARATION:

(Refer to "Surface Preparation and Paint Systems" for full details). To ensure a successful application all surfaces to be coated must be clean, dry and stable.

ALL SURFACES:

Any mould, moss, algae needs to be treated with a suitable chemical cleaner/inhibitor.

Ensure surfaces are free from oil, grease and any surface contamination. Use commercial detergent/alkali cleaner. Ensure substrate is dry, prior to application.

NEW TIMBER:

Untreated timber (eg: cedar) – sand to the required degree of finish. Apply REPEL liberally until surface is saturated. It is recommended that two coats be applied, and the second coat must be applied before the previous coat has dried, otherwise it will be repelled due to the hydrophobic nature of the product.

Rough sawn or aged Cedar: This surface can be hard to sand so a light scrub with a soft wire brush can be effective. Aged Cedar needs to have the surface abraded to remove the friable, soft aged timber fibre. This is also important when re coating or staining as the aged coating will need to have the eroded layer removed. Again, this is best done with either hard bristle or soft wire brushes on rough sawn or heavily textured timber.

Treated timber (LOSP or CCA) – must be allowed to dry out thoroughly, prior to application of product. In the case of LOSP treated timber, leave for several weeks to allow residual treatment solvent to evaporate.

PREVIOUSLY COATED TIMBER:

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

REPEL is not intended for application to sealed surfaces.

Note: Commencement of work on a surface means in general you accept that surface. If any doubt about condition etc, seek advice.

APPLICATION:

BRUSH: Apply liberally with a good quality brush. Maintain a wet edge during application, to avoid lap marks.

ROLLER: Use a 5-10mm nap Dacron roller. Maintain a wet edge during application, to avoid lap marks.

SPRAY: Recommend an airless unit. Pressure 2,500psi max and a tip 515-619. Can be applied with a garden sprayer to smaller areas.

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. 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.

THINNING & CLEAN UP:

Do not thin. Clean up in water. Use a small amount of detergent to aid clean up.

ENVIRONMENTAL:

This range of products are formulated on the latest available resins to give you both high performance and also to meet low VOC (Volatile Organic Compound) levels set out in current local standards. Likewise levels of environmentally harmful substances are either significantly reduced or eliminated. 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.