

APPLICATION OVERVIEW

WoodForce^{NZ}: A durable wood treatment that allows exterior wood to weather naturally while offering exceptional water repellency and protection from blackening and deterioration. Easily applied standard and custom colours that let the exposed surface weather naturally and more evenly.

FEATURES

- Protects wood while allowing weathering
- Creates complete range of weathered looks, colours and effects
- Environmentally friendly, low toxicity
- VOC-SCAQMD Compliant
- Red List/CARB Compliant
- Penetrates the substrate
- Water repellent
- Breathable
- Clean up with soap and water
- Exceptionally easy to maintain

IMPORTANT

Product Data Sheets are based on "ideal" work conditions. Due to wood variability and varying environmental conditions, it is strongly recommended that the end-user determines the application conditions, coating product system and techniques are suitable to achieve the desired results. Please see Conditions of Sale.

APPLICATIONS

Recommended for use on new and old, weathered or restored vertical wood surfaces such as timber cladding, exterior joinery and furniture, logs and shingle roofing where high performance wood protection is desired.

COATING SYSTEMS

The WoodForce^{NZ} system uses a clear base and high quality pigments, custom mixed by Rosenfeld Kidson to easily create our standard colour range or any custom colour you desire.

The WoodForce^{NZ} system provides a natural weathering effect while protecting timber against UV, moisture and blackening.

WoodForce^{NZ} is a protective weathering system - colours may or may not change depending on colour formulation, timber species, treatments or possible tannin bleed. Consider Conditions of Sale prior to selecting a formula.

PACKAGING

WoodForce^{NZ} is available in 4 Litre and 10 Litre pail sizes.

CHARACTERISTICS - PRECISION COAT WOODFORCE^{NZ}

CHARACTERISTICS	CLEAR	COLOURED
Appearance	Milky White	Coloured
Odour	Amine	Amine
Form	Liquid	Liquid
Specific Gravity	1.01	1.02-1.05
Density	8.4	8.4-8.8
pH, (approx.)	8.0-8.5	8.0-8.5
Viscosity, Brookfield #1, 60RPM, 20°C (68°F)	80-100 cPs	80-100 cPs
Solvents	Trace	Low
Freezing Point	-1°C (31°F)	-1 C (31°F)
Diluent	Water	Water
Cleanup	Water	Water
Drying Time @ 20°C (68°F @ 50% RH)	~2 Hrs*	~2 Hrs*
Drying Time Before Packaging	Up To 24 Hours. Test Accordingly Density	
Coverage, pending to penetration	6-9m ² /litre	6-10m ² /litre
Regulatory VOC	<5 g/L	<10 g/L

*Drying time between coats will vary depending on wood moisture content, humidity, temperature and air flow.

APPLICATION METHODS

- Always flood surface to the point of saturation.
- Apply product by brush, flood coat or spray – hand or automated spraying (low pressure or airless).
- Use a good quality china bristle 6" brush to brush out puddles and spread evenly.
- Cut ends must be properly coated using WoodForce^{NZ} in the appropriate colour.

PREPARATION

- Prior to any new coats of WoodForce^{NZ}, the surface must be prepared appropriately. Inspect the wood surface for defects and make any necessary repairs.
- Use Sansin cleaners and/or pressure wash the entire surface using clean water and set on a low pressure and a wide fan.
- Sand milled or smooth timber well using a 60-80 grit paper and a variable speed random orbital sander.
- Follow by power washing, vacuuming or using compressed air. Surface must be clean, free from dust, dirt, grease, wax or other contamination like a pre-existing coating.
- Time the sanding step just ahead of application - ideally within 24 hours.

GENERAL WORKING PROCEDURE

- Use only WoodForce^{NZ} pigments provided by Rosenfeld Kidson for mixing colour. Do not use any other colourant as this will negatively impact product performance and durability.
- Stir product well before and during the application process.
- Test formula and coating system on an inconspicuous wood surface to ensure proper colour and results according to specification and control sample.
- Apply in proper conditions with an ideal temperature of 21°C and relative humidity of approximately 50%.
- Do not apply if rain or near freezing temperatures are expected.
- Apply to dry wood only. Do not apply to wood that is warm to the touch or in direct sunlight.
- Saturate the surface to the point of refusal. Spray apply using an HVLP sprayer (high volume, low pressure) to spread evenly. Back brush out runs and puddles using a large china bristle brush (good quality 5" or 6").
- Avoid creating lap-marks caused by random application. Predefine a set vertical or horizontal layout for application and avoid site obstacles that can hinder progress. Apply in an even and continuous line, within a set working zone. Avoid breaking the linear application and complete each full board in length, prior to commencing on adjacent boards.
- Always read published directions for use prior to beginning any project.

CLEAR WORKING PROCEDURE

Clear Natural Weathering:

- Apply the first coat of WoodForce^{NZ} Clear in the factory at 6-8 mil using a flood coater and back brushing.
- Allow to dry, generally 2 hours in favourable conditions.
- Once installed, apply the second coat of WoodForce^{NZ} Clear at 4-6 mil.
- Allow to dry in favourable conditions.

COLOUR WORKING PROCEDURE

- Ensure WoodForce^{NZ} colour formulas are mixed thoroughly before use.
- Always test the coloured WoodForce^{NZ} formula to ensure proper results are achieved.
- Apply first coat of WoodForce^{NZ} at 6-8 mil in the factory using a flood coater and back brushing. PrecisionCoat factory formulas utilise enriched pigments.
- Allow to dry, generally 2 hours in favourable conditions.
- Once installed, apply the second coat of WoodForce^{NZ} at 4-6 mil; in the same colour, using site application formula.
- Allow to dry in favourable conditions.

MAINTENANCE

Exposed vertical surfaces require a maintenance coat of WoodForce^{NZ} every 3-6 years. Use Sansin Multi-Wash ahead of maintenance applications. Carefully rinse using clean water. Allow to dry and apply the maintenance application. Use WoodForce^{NZ} Clear with pigments mixed in. The quantity of pigment can be varied, to enhance aesthetics and colour coverage as desired. The minimum quantity is half strength up to a maximum full strength. Without maintenance, WoodForce^{NZ} will erode slowly to expose natural weathering, darkening will occur as wood moisture content increases and degradation takes place. Reapply WoodForce^{NZ} to enhance protection.

STORAGE & SAFETY

Shelf life when stored in ideal conditions is 3 years. Store at temperatures of between +10°C and + 30°C. Keep containers tightly closed. Keep from freezing. See Safety Data Sheet.


CONDITIONS OF SALE

The only obligation of the manufacturer and seller shall be to replace such quantity of Sansin product that is proven to be defective. Proof of purchase is required. Seller or manufacturer shall not be liable for any loss or damage connected with the use and/or handling of this product. All labour costs are specifically excluded. User should determine suitability of product for the intended use before application. User assumes all risk and liability in connection therewith. This warranty is expressly made in lieu of any and all other rights, warranties, conditions and remedies, express or implied, including but not limited to any implied warranty or condition of merchantability, fitness for a particular purpose, and any warranty or condition arising out of a course of dealing, a custom or usage of trade. If any distributor or seller of product offers warranties or remedies which differ from those offered by Sansin, Sansin accepts no responsibilities for such warranties or remedies.

WARNING TO USERS

Keep out of reach of children. If swallowed immediately drink two glasses of milk or warm water, do not induce vomiting and call physician immediately. Avoid contact with skin or eyes; flush with soap and water. Avoid breathing of vapour or mist. Wear a properly fitted approved respirator hat is compliant with AS/NZS 1716:2012. The information contained in this document is given in good faith based on our current knowledge. The use of the product is beyond the control of The Sansin Corporation and no guarantees, expressed or implied, is made as to the result to be obtained if not used in accordance with the published Directions for Use. The Sansin Corporation does not assume any legal responsibility for use or reliance on same. This information must on no account be used as a substitute for necessary field tests, which alone can ensure that the product is suitable for the expected use. Before using any product, read its label.

WOODFORCE^{NZ} COLOUR GUIDE

 <p>PEARL LRV Value: 28</p>	 <p>MIST LRV Value: 28</p>	 <p>ASH LRV Value: 25</p>	 <p>SEAL LRV Value: 21</p>	 <p>CLAY HILL LRV Value: 16</p>
 <p>SCALLOP LRV Value: 19</p>	 <p>SANDSTONE LRV Value: 15</p>	 <p>CORAL LRV Value: 13</p>	 <p>WILLOW LRV Value: 11</p>	 <p>SADDLEBACK LRV Value: 9</p>
 <p>HARBOUR LRV Value: 12</p>	 <p>GULLY LRV Value: 11</p>	 <p>KANUKA LRV Value: 7</p>	 <p>WROUGHT IRON LRV Value: 6</p>	 <p>COAL DUST LRV Value: 3</p>

LRV, or light reflective value, refers to the percentage of light a paint colour reflects. To predict how light or dark a colour will appear, experts use its light reflective value. LRV is measured on a scale from 0%, which is black and doesn't reflect any light to 100%, which is pure white and reflects all light.

Our colours have been optimised for accurate viewing across a variety of media. However, due to differences in how screens display colour, actual colour may vary. Colour may vary depending on texture, grain, colour, porosity and type of wood and may not be exactly as illustrated. Always test the purchased product on an inconspicuous part of the project to ensure the colour and transparency meet expectations of your control sample.

