

Precision Coat WoodForce: A wood treatment that allows exterior wood to weather equally while offering exceptional water repellency and protection from darkening and wood rot. Easily tinted to create standard and architectural custom colors and vintage effects, allowing the exposed surface to weather more evenly.

FEATURES

- Protects wood while allowing weathering
- Creates complete range of weathered looks, colors and effects
- Environmentally friendly, low toxicity
- VOC-SCAQMD Compliant
- Red List/CARB Compliant
- Formaldehyde and PCP Free
- Water repellent
- Penetrating
- Offers integral protection
- Breathable
- Clean up with soap and water
- Exceptionally easy to maintain
- Dimensional Stability
- Designed for machine application
- Weathering is subject to factors like location, climate, exposure, wood species and building design.

WOODFORCE COMBINATIONS

EFFECT	Clear	Vintage Color System
OVERVIEW	Durable Wood Protection	Durable wood protection in a vintage or architectural color of your choice
COAT #1	PC WoodForce Clear	PC WoodForce Clear tinted to architectural color of choice
COAT #2	PC WoodForce Clear	PC WoodForce Clear, or tinted to architectural color of choice
COAT #3	--	PC WoodForce Clear for extra protection (Optional)

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 needs to determine that the application conditions, coating product system, and techniques are suitable to reach the desired results. Please see Conditions of Sale.

APPLICATIONS

- Rough Sawn
- Acetylated Wood
- Siding
- Thermally Modified Wood
- Laminated Timbers
- Wood Shingles

FORMULAS

PC WoodForce can be colored into several architectural custom colors. PC WoodForce vintage colors provide raw, natural aesthetics and protect wood. 24 vintage & architectural colors are available.

Formulate the PC WoodForce mixtures to any desired tone transparently. Contact SansinCare for specified architectural colors.

PC WoodForce is a protective weathering system - colors may or may not change depending on color formulation, wood species, treatments or possible tannin bleed. Strong colors will tend to be more sustainable and weather less than weaker colors. Consider conditions of sale prior to selecting a formula. Samples are advised to ensure satisfaction.

COATING SYSTEMS

PC WoodForce provides direct protection in just 1 coat as a clear, natural weathering treatment.

When WoodForce colors are selected, the color formula must be applied as the first coat.

A second coat of PC WoodForce clear or a reduced color formula should be applied to provide adequate protection.

A final coat or third coat of clear is recommended for systems that include full color formula in the second coat.

PREPARATION

- Use only dimensional lumber that is clean, free of defects and deterioration and meets the quality control specifications determined for the project.
- Machined or mill glazed wood surfaces must be sanded well using proper machinery to achieve the 60-80 grit texture that absorbs finish to an even coverage.
- Remove loose fiber
- Project specific quality control samples can be ordered from Sansin IRIS.

APPLICATION METHODS

- Apply product by flood & brush machine coat
- Always flood the wood surface to the point of saturation
- PC WoodForce should be applied at 6 wet mils (150 micron) to a properly prepared surface
- Apply in a factory setting in conditions with an ideal temperature of 21°C (70°F) and relative humidity of approximately 50%
- Cut ends must be thoroughly coated using PC WoodForce Clear

PC WOODFORCE - CHARACTERISTICS

- Shelf Life.....12 Months
- Coverage pending to penetration.....4.90-8.58sq.m/L
- Regulatory VOC (g/L).....<5 g/L
- Drying Time before Packaging.....Up to 24 Hours, Test Accordingly
- Drying Time to Touch @ 20°C(68°F).....~2 Hours
- Appearance.....Milky White (Clear), Off White (Accel)
- Coloring.....Standard and Custom
- Odor.....Amine
- Form.....Liquid
- Specific Gravity.....1.01 (Clear), 1.03-1.05 (Accel)
- Density.....8.4 (Clear), 8.5-8.8 (Accel)
- pH (approx).....8.0-8.5
- Viscosity, Brookfield #1, 60RPM, 20°C(68°F).....80-100 cPs (Clear)
- Solvents.....Trace
- Freezing Point.....-1°C (31°F)
- Diluent.....Water
- Cleanup.....Soap & Water

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

WoodForce™

ENVIRO STAIN®



2-3 COATS

NATURAL WEATHERING

CUSTOM COLOR & EFFECTS



SANSIN®

WoodForce



GENERAL WORKING PROCEDURE

- Mix product well before and during the application process
- Test formula and coating schedule to ensure finished product meets project control samples for color, clarity and finish
- Apply to dry wood only. Do not apply to wood that is warm to the touch or in direct sunlight
- Always read published directions for use prior to beginning any project

CLEAR & ACCELERATED WORKING PROCEDURE

Clear Natural Weathering:

- Apply the first coat of WoodForce Clear at 6-8 wet mil
- Allow to dry, generally 2 hours in favorable conditions
- Apply the second coat of WoodForce Clear at 4-6 wet mil
- Allow to dry in favorable conditions

VINTAGE COLORS WORKING PROCEDURE

- Mix well using a drill mixer, avoid aeration
- Mix color using Sansin colorants only using the color formula guide
- Test the colored PC WoodForce formula on an inconspicuous area to ensure proper results are achieved
- Apply a saturated coat with PC WoodForce in the specified color formula at an initial 6 wet mil (150 micron). To further accelerate weathering effects, you may reduce color strength. Allow to dry.
- Apply the second coat of PC WoodForce Clear or an appropriate color formula to the point of saturation and back brush excess product.
- Allow to dry.
- When required, apply the third coat of PC WoodForce Clear for enhanced durability.

MAINTENANCE

Exposed vertical surfaces require a maintenance coat of PC WoodForce Clear every 3-5 years, or as the wood shows signs of wear. Carefully rinse using clean water. Allow to dry and apply the maintenance coat at 4-6 wet mils, or to the point of saturation. Use PC WoodForce in an appropriate color formula to enhance aesthetics as desired. Consult Sansin's color formula guide for direction. Follow with an application of PC WoodForce Clear. Without maintenance, PC WoodForce will erode slowly to naturally weather, darkening will occur as wood moisture content increases and degradation takes place. Reapply PC WoodForce to enhance protection.

STORAGE & SAFETY

Shelf life when stored in ideal conditions is 12 months. Store at temperatures of between +7°C and +21°C (59°F and 69°F) 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 labor 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 vapor or mist. Wear a properly fitted NIOSH/MSHA approved respirator. 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.

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