APPLICATION OVERVIEW

Precision Coat KP-30 is considered the finest exterior, translucent wood protection for factory finishing, delivering both beauty and durability to the highest standard in an endless spectrum of colors. This unique water-borne, alkyd formula uses water not solvent to penetrate wood. Precision Coat KP-30 is the only water-borne finish that can rely on a 38-year history of proven durability in an environmentally-friendly formula.

FEATURES

- Penetrating
- Designed for machine application
- Standardized production quality control
- Cost-effective
- Non-flammable
- Low-VOC
- UV stable
- Water repellent
- Creates a monolithic bond with wood for long-term protection
- Limited Warranties available

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.

COLORS

The Precision Coat KP-30 system facilitates complete control of finish clarity, color and grain definition, in an exceptionally durable, beautiful wood coating. Designers and factory finishers can utilize Sansin's color lab, or work within the guidelines provided to qualified finishers, to reliably balance beauty and durability. Available in standard and architectural custom colors.

Color	Clarity & Definition
Naturals	Transparent
Translucent	Semi-Transparent
Saturated	Semi-Opaque/Opaque
Solid	Opaque

Ambering (darkening) could occur in the absence of light, but is reversed when subjected to standard light energy.

COATING SCHEDULE

Finish	1st Coat	2nd Coat	3rd Coat
Natural	KP-30	KP-30	
Low Luster	KP-30	KP-32	KP-32
Full Finish	KP-30	KP-50	KP-50

Acetylated or thermally modified wood requires a 3 coat system of a penetrating undercoat and 2 coats of KP-50 or KP-32, appropriately colored. Minimum microns/dry mil thickness of 3.5 mil (88.9 µm) is required.

FORMULAS AND TINTABLE BASES

Precision Coat KP-30 uses six base formulas to create an endless spectrum of color, clarity and hide so the factory can offer any imaginable exterior wood finish.

Precision Coat KP-30 Clear, Naturals and Foundation are used as the first penetrating coat to protect wood from moisture and stabilize against UV degradation. A second coat provides the finish protection when a matte natural finish is desired. Color formulas need to be carefully chosen to determine translucence and maintenance cycles.

For even more finish and protection, use KP-32 in place of the Precision Coat KP-30 second coat. For added durability and finish, a third coat of KP-32 is optional. Precision Coat KP-30 Deep and White bases are used to finish the wood in solid colors. These are used as a two-coat stand alone finish. For extra protection in rich moisture environments, consider Precision Coat KP-30 Foundation, KP-12 or Stain Block formulas.

APPLICATIONS

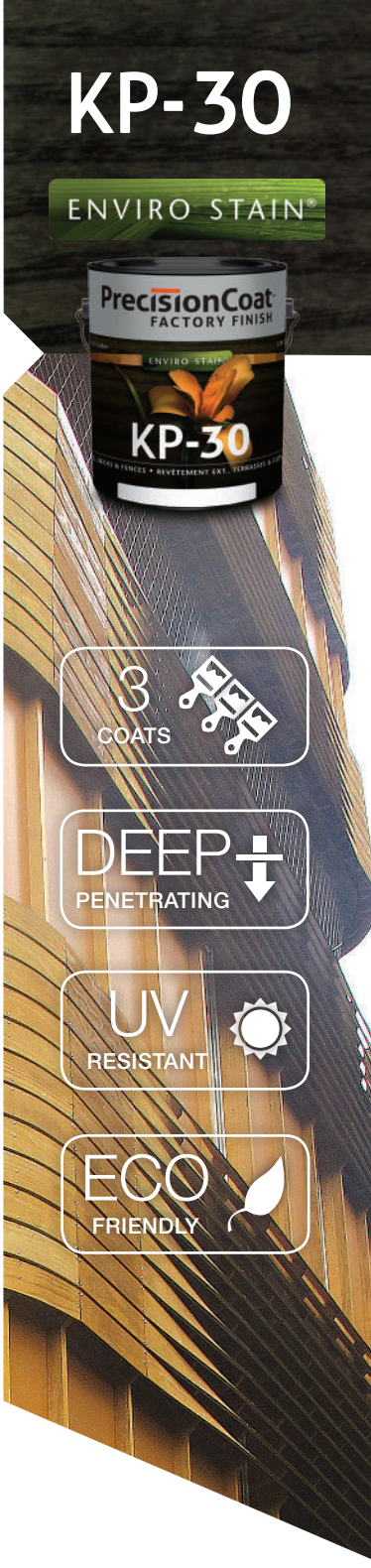
- Cladding
- Laminated Timbers
- Acetylated Wood
- Timbers
- Thermally Modified solid timbers

CHARACTERISTICS - PRECISION COAT KP-30 FOUNDATION

- Wet Film Thickness.....152.4 µm (6 wet mils)
- Coverage.....6.55 m^2/L (267 ft^2/US Gallon)
- Coloring.....Standard and Custom
- Color Wet.....Milky Yellow
- Gloss.....Satin
- Odor.....Low
- Form.....Liquid
- Specific Gravity.....1.01-1.02
- Density.....8.4-8.5
- pH (approx).....8.0-9.9
- Viscosity, #2 ZAHN Cup, 20ºC (68ºF).....16-20 sec
- Solvents.....Low
- Freezing Point.....-1ºC (31ºF)
- Dilutent.....Water
- Cleanup.....Soap and Water
- Drying time (to touch) @ 20ºC (68ºF).....4-6 hours
- Sag resistance.....≤ 76.2 µm (3 wet mils)
- VOC (g/L).....Actual 48/Regulatory 48

CHARACTERISTICS - PRECISION COAT KP-30 NATURALS

- Wet Film Thickness..... 6 wet mils (152.4 µm)
- Coverage..... 267 ft^2/US Gallon (6.55 m^2/L)
- Coloring.....Standard and Custom
- Color Wet.....Yellow Tone
- Gloss.....Satin
- Odor.....Low
- Form.....Liquid
- Specific Gravity.....1.01-1.02
- Density.....8.4-8.5
- pH (approx).....8.0-9.9
- Viscosity, #2 ZAHN Cup, 20ºC (68ºF).....20-25 sec.
- Solvents.....Low
- Freezing Point.....-1ºC (31ºF)
- Dilutent.....Water
- Cleanup.....Soap and Water
- Drying time (to touch) @ 20ºC (68ºF).....4-6 hours
- Sag resistance.....5 wet mils (127 µm min)
- VOC (g/L).....Actual 56/Regulatory 218



SANSIN™

KP-30

CHARACTERISTICS - PRECISION COAT KP-30 CLEAR

- Wet Film Thickness..... 6 wet mils (152.4 µm)
- Coverage..... 267-300 sq.ft/US Gallon (6.55-7.87 m^2/L)
- Coloring.....Standard and Custom
- Color Wet.....Milky
- Gloss.....Satin
- Odor.....Low
- Form.....Liquid
- Specific Gravity.....1.01-1.02
- Density.....8.4-8.5
- pH (approx).....8.0-9.9
- Viscosity, #2 ZAHN Cup, 20ºC (68ºF).....24-28 sec.
- Solvents.....Low
- Freezing Point.....-1ºC (31ºF)
- Dilutent.....Water
- Cleanup.....Soap and Water
- Drying time (to touch) @ 20ºC (68ºF).....4-6 hours
- Sag resistance..... 5 wet mils (127 µm min)
- VOC (g/L).....Actual 63.2/Regulatory 212

PACKAGING

1 US Gallon (3.78 Litres), 5 US Gallons (18.92 Litres) pails and 264 US Gallons (1000 Litre) totes.

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 80-100 grit texture that absorbs material to an even and appropriate coverage.
- Sanding properly is required on all exposed milled surfaces.
- Remove loose fiber thoroughly with brushing machine.
- Project specific quality control samples can be ordered from Sansin IRIS.
- Ensure Acetylated wood has a moisture content (MC) below 8% prior to application

APPLICATION METHODS

- Color formulas must meet minimum loading requirements to meet maintenance cycles.
- Product must be applied through a flood coater to all six sides of the surface for at least two of the three coats.
- Precision Coat KP-30 must be applied by flood coating and back brushing to a 6 wet mil (152.4 µm) finish.
- Precision Coat KP-32 may be applied with a flood coater and back brushed or with spray application to the appropriate microns/wet mil thickness
- Consider scuff sanding between coats of KP-32 to denib surface, as needed.
- KP-50 must be spray applied to the appropriate microns/wet mil thickness.
- Other application methods like dipping and spraying may be appropriate, proper back brushing is recommended for even saturation and coverage.
- Cut ends must be properly coated using Precision Coat KP-30 Clear or Naturals base formulas.

WORKING PROCEDURE

- Test formula and coating schedule to ensure finished product meets project control samples for color, clarity and finish.
- Product must be mixed thoroughly, and applicator should test product for color accuracy.
- For proper penetration and drying, apply in factory controlled conditions of 20-27º C (68-80º F), 50% percent relative humidity.
- Drying time between coats at 50% relative humidity @ 20ºC (68ºF) is 24 hours

MAINTENANCE

Vertical surfaces require maintenance within 6 years on solid timber. Acetylated products require maintenance within 5-8 years depending on exposure levels. Maintenance is necessary when the surface shows signs of wear, such as fading or erosion. Maintaining your wood on a regular basis will ensure long-lasting color retention, exceptional dimensional stabilization and effective water repellance. Annual inspection is highly recommended, clean the wood surface with a nylon brush and soap or Sansin Multi-Wash to remove dirt and residue. Maintenance frequency will depend on the initial application quality and weather exposure. If fading or erosion is evident, prepare wood by using a nylon brush and soap to lightly clean the wood surface; or use Sansin Multi-Wash. To spot repair, re-apply one maintenance coat of Precision Coat KP-32 according to instructions in an appropriate color formula.

STORAGE

Shelf life when stored in ideal conditions is 18 months. Store at a temperature of between +10ºC and + 25ºC (50ºF and 77ºF). Keep containers tightly closed.

LIMITED WARRANTIES

Factory finish materials and application must comply with Sansin's prescribed Quality Control system to be eligible for warranty. To help achieve this objective, we suggest utilizing Sansin IRIS' Quality Control Sample Program. Warranties are developed in partnership with our factory finishers based on the requirements of their products, and range from 4-8 years for natural, transparent and clear finishes, and 10-20 years for solid hide finishes (depending on substrate, finish type, opacity and characteristics of finish). Contact your factory finisher for details.

SAFETY

See Material Safety Data Sheet.

WARNING TO USERS

Keep out of reach of children, if swallowed immediately drink two glasses of milk or warm water. Do not induce vomiting. 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.

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.

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JUNE 2025