



Precision Coat KP-50: Extremely durable two-coat finish for exterior horizontal and vertical surfaces where a full finish is desired. Exceptional performance on most substrates including Acetylated wood, thermally modified, solid timbers, and dry wood. Apply to adequately pigmented undercoat such as KP-30 or KP-40.

FEATURES

- Tremendous adhesion
- High solids
- Glass like premium finish
- Tough and durable
- Lasting color
- Provides UV protection when correctly pigmented
- High vapor permeability
- Low VOC
- Highlights surface character
- Apply as a finish or maintenance coat to many water-based and alkyd finishes

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

- Outdoor Furniture
- Millwork
- Above ground horizontal and vertical surfaces for acetylated wood and thermally modified timber products

COLORS

Available in the complete standard KP-50 and KP-40 color offerings as well as architectural custom colors. Acetylated and thermally modified wood substrates should use standard KP-50 and KP-40 colors. When requesting custom made architectural colors or tones, be sure to specify that it's for acetylated or thermally modified wood substrates. Reduce as necessary with up to 5% water

TINTABLE BASES

Sansin KP-50 is available in Clear, Naturals, Translucents, Saturated and Ultra Saturated formulas. Tintable bases are available to Colorant Dealers. Use KP-50 0-Base to dilute colors up for 50% when desired. For acetylated and thermally modified wood use full strength formulas only.

FORMULAS

Create almost any color and clarity with KP-50 by combining it with appropriate undercoat. For bare wood, always use an adequately pigmented undercoat such as Foundation or KP-40. When striving for a clear finish we suggest doubling the color strength of Naturals in the undercoat or when protection must appear invisible select a Sansin Foundation formula for the first coat. Use KP-50 Naturals Topcoat as a universal clear-like finish to adequately pigmented under coats or, as a maintenance application to many existing wood toned finishes. Where a higher gloss or matt finish is required consider KP-50 Optimum Clear. To maintain clarity Optimum Clear Gloss should be used for the intermediate coat when using low gloss or matt as the final coat.

COATING SCHEDULE

Finish	1st Coat	2nd Coat	3rd Coat
Full Finish	KP-40 Foundation	KP-50 (Gloss) KP-50 (Gloss)	KP-50 (Final Sheen) KP-50 (Final Sheen)

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 dry mil thickness of 88.9 µm (3.5 mil) is required.

CHARACTERISTICS

- Drying time between coats at 50% relative humidity @ 20°C (68°F)2-4 hours
- Wet Film Thickness.....127-152.4 µm (5-6 Wet Mills/US gal)
- Coverage.....7.36 m²/L (300 ft²./US gal)
- Form and Appearance.....Milky Liquid
- Appearance on wood.....Matt to High Gloss
- Coloring.....Standard
- Odor.....Low
- Specific Gravity (g/cm³).....1.00-1.03
- Density (lbs/US gal).....8.3-8.4
- pH.....8.5-9.0
- Viscosity, #2 Zahn Cup.....200 +/- 50cps
- Solvents.....Low
- Solid Content.....40% +/-1%
- Freezing Point.....-1°C (31°F)
- Diluent.....Water
- Sag resistance.....152.4 µm (6 wet mils)
- Clean-up.....Soap & Water
- Drying Time (To touch) @ 20°C (68°F).....40 minutes
- VOC (g/L).....Actual 70/Regulatory 164

PACKAGING

Available in 0.9 L (1 Quart), 3.8 L (1 US Gallon) and 18.9 L (5 US gallon) plastic containers.

PREPARATION

PREPARATION IS KEY TO A SUCCESSFUL RESULT



SAND ENTIRE SURFACE WITH
80-100 GRIT



BRUSH USING A GOOD QUALITY
DUAL PURPOSE BRUSH



KP-50



- Inspect wood surfaces for defects and make any necessary repairs.
- Use Sansin cleaner and/or wash the entire surface with a nylon brush and soap using clean water
- Sand the surface well using 80-100 grit paper and standard vibrating sander.
- Follow by lightly washing, vacuuming or using compressed air for proper cleaning. Surface must be clean, free from dust, dirt, grease, wax or any existing coatings.
- Ensure acetylated has a moisture content (MC) below 8% prior to applying

APPLICATION METHODS

- Color formula must meet minimum loading requirements to meet maintenance cycles
- Apply product on a small test area to ensure proper drying, adhesion and durability.
- Brush using a good quality dual purpose brush.
- Spray using hand or airless equipment with a .011-.013 tip. Set pressure to ensure desirable spray pattern.
- Avoid high sheer pumps.
- For a gloss finish, apply KP-50 Optimum Clear mixed 90:10 with the base color for the final coat.
- If a low gloss or matt sheen is required, use as final coat only. Use gloss for intermediate coats.
- Dry time effected by humidity and temperature

WORKING PROCEDURE

- For transparent exposed surfaces use a penetrating first coat like KP-40 or KP-12 W (with correct pigmentation) to improve moisture and UV protection while optimizing aesthetics.
- Stir well before and during application.
- Spray application is preferred using air assist or airless spray equipment.
- Apply a manageable film thickness.
- Allow to dry for 2-4 hours
- Consider finish sanding for a smooth finish and remove dust.
- Apply a second and third coat if necessary. Follow the above procedures. Ensure an adequate dry film thickness of 76.2 µm (3 mils) for optimum protection.
- Do not overwork KP-50 as it is fast drying.
- Do not apply in heat of day or direct sun.
- Do not apply on wood that is warm to touch.
- Do not apply if rain is expected or if temperature is expected to drop below 5°C
- For adequate application & drying, apply in factory controlled conditions of 20-27° C (68-80° F) at 50% relative humidity

MAINTENANCE

Vertical surfaces require a full maintenance within 6 years on standard timber. Acetylated products require maintenance between 5-8 years depending on exposure levels. Maintenance is necessary when the surface shows signs of wear, such as fading or erosion. Matt finishes require more frequent maintenance than high gloss finishes. Maintaining your wood on a regular basis will ensure long-lasting color retention, exceptional dimensional stabilization and effective water repellency. Annual inspection is highly recommended, clean the wood surface with a nylon brush and soap or Sansin Multi-Wash to remove dirt and residue. The frequency of maintenance coats is dependent on the quality of prior preparation, application and exposure to moisture and UV levels

STORAGE

Shelf life when stored in ideal conditions is 18 months. Store at temperatures of between +10°C and +30°C (50°F and 86°F). Keep containers tightly closed.

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. 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, are 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.