



Precision Coat KP-40: Superior protection for a variety of exterior wood surfaces including thermally modified and acetylated wood substrates, cladding, decking, solid timber, cedar shakes and fences. Matt finish. Two-coat application. Easy to maintain.

FEATURES

- Won't crack, peel or blister
- Molecularly compatible creating a monolithic bond with wood for long term protection
- Dimensional stabilization – Reduces warping, shrinking and checking
- Nano tints – Deliver exceptional beauty and protection
- Provides UV protection when correctly pigmented
- Minimizes water absorption while maintaining the breathability of the wood which is critical.

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

- Cladding
- Decking
- Above ground vertical and horizontal surfaces
- Acetylated and thermally modified timber products

COLORS

Available in the complete standard KP-40 and KP-50 color offerings as well as architectural custom colors. Thermally modified and acetylated wood substrates should use standard KP-40 and KP-50 colors. When requesting custom architectural colors or tones, be sure to specify the wood species and/or modified wood manufacturer.

FORMULAS AND TINTABLE BASES

Sansin KP-40 is available in Clear, Naturals, Translucents, Saturated and Ultra Saturated formulas. Tintable bases are available to Colorant Dealers.

For a matt natural finish use KP-40 for the first coat in a full strength color formula in a two coat system. For the second coat use KP-40 in a full strength color or reduce the color formula by up to 50% or reduce full strength formulas using KP-40 0-Base.

For a full finish and increased durability use KP-50 as the second and third final coat over a first coat of KP-40. KP-40 provides the penetrating wood protection for the KP-50 finishing system. Use full strength colors for the KP-40 base coat and reduce KP-50 color formulas up to 50% using KP-50 0-base to meet translucent objectives.

Thermally modified and acetylated wood substrates. For in situ application use only KP-40 full strength color formulas for first coat application and appropriately toned KP-50 for the second and third coat applications.

COATING SCHEDULE

Finish	1st Coat	2nd Coat	3rd Coat
Full Finish	KP-40	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 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.....152.4 µm (6 Wet Mils/USgal)
- Coverage.....6.5 m²/L (265 ft²/USgal)
- Appearance.....milky
- Coloring.....Standard & Custom
- Odor.....Low
- Form.....Liquid
- Specific Gravity.....0.98-1.02 g/L
- Density.....8.3-8.5 lbs/US Gallon
- Solids Content.....22.0%±0.5
- pH (approx).....8.8-9.2
- Viscosity, #2 ZAHN Cup, 20°C (68°F).....22-26 sec
- Solvents.....Low
- Freezing Point.....-1°C (31°F)
- Diluent.....Water
- Cleanup.....Soap and Water
- Drying time (fully cured) @ 20°C (68°F).....24 hours
- VOC (g/l).....Actual 52.5/Regulatory 200

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 PROJECT



WASH FACADE USING NYLON BRUSH



SANDING #80-#100 GRIT

- Inspect wood surfaces for defects and make any necessary repairs.
- Use the appropriate Sansin cleaner and/or wash the entire surface with a nylon brush and soap using clean water and proper technique. Be careful not to erode the surface.
- Sand the surface well with a 80-100 grit paper using a standard vibrating sander
- Follow by vacuuming or using compressed air for proper cleaning. Surface must be clean, free from dust, dirt, grease, wax or any existing coatings.
- Ensure acetylated wood has a moisture content (MC) below 8% prior to applying



KP-40



APPLICATION

- Color formula must meet minimum loading requirements to meet maintenance cycles.
- For previously coated surfaces apply to 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, .011-.013 tip, set pressure to ensure desirable spray pattern.
- Avoid high sheer pumps.
- KP-50 must be spray or brush applied to the appropriate wet mil thickness.
- Longer drying time needed in high humidity or low temperature environments

WORKING PROCEDURE

- Test formula and coating schedule to ensure finished product meets project control samples for color, clarity and finish
- Stir well before and during application.
- Spray application is preferred using air assist or airless spray equipment.
- Apply a manageable film thickness.
- Back brush to even finish.
- Allow to dry for 2-4 hours.
- Longer drying time needed in high humidity or low temperature environments
- Consider 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 the full system 76.2 µm (3 mils) for optimum protection.
- 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 proper penetration and 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 wood products require maintenance every 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 repellence. 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 Sansin KP-40 according to instructions. Re-apply one maintenance coat of KP-50 according to instructions in appropriate color formula.

STORAGE

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

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 remedy.