

KP-52

ENVIRO STAIN®



PRECISION COAT KP-52: A clear finish that is highly durable and designed as a finish coat for previously coated, or primed wood.

It is compatible with many transparent or solid finishes such as KP-30, KP-40 and KP-50. KP-52 will provide enhanced UV resistance & durability. It offers excellent adhesion characteristics and can be applied over many water-based alkyd products.

FEATURES

- Tremendous adhesion
- High solids
- Premium exterior durability
- Tough and durable
- Provides UV protection
- High vapor permeability
- Low VOC
- Full Finish
- Highlights surface character
- Apply as a finish or maintenance coat to many water-based and alkyd finishes
- 10% - 70% Reflective Range

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

- Millwork
- Above ground horizontal and vertical surfaces
- Acetylated & Thermally modified wood
- Timbers
- Doors, windows, joinery
- Outdoor Furniture

COLORS

Available in the complete standard KP-40 and KP-50 color offerings as well as architectural custom colors. Accoya® and thermally modified wood substrates should use standard KP-40 and KP-50 colors. When requesting custom made architectural colors or tones, be sure to specify the wood substrate.

FORMULAS

Available in Gloss, Satin, Low Luster and Extra Low Luster finishes. To maintain clarity KP-52 - Gloss should be used as the intermediate coat when using Low or Extra Low Luster as the final coat. Low Luster finishes require more frequent cleaning and maintenance than higher luster finishes. For natural, translucent and solid colors, KP-52 should be toned appropriately for improved UV performance. See a qualified dealer or request a custom color from Sansin.

COATING SCHEDULE

Finish	1st Coat	2nd Coat	3rd Coat
Full Finish	KP-30	KP-52 (Gloss)	KP-52 (Final Selected Sheen)
	KP-40	KP-52 (Gloss)	KP-52 (Final Selected Sheen)

Accoya® or thermally modified wood requires a 3 coat system of a penetrating undercoat and 2 coats of KP-50, KP-52 or KP-32, appropriately colored. Minimum dry mil thickness of 3.5 mil (88.9 µm) is required.

CHARACTERISTICS

- Drying time between coats at 50% relative humidity @ 20°C (68°F)2-4 hours
- Wet Film Thickness.....3-4 Wet Mils/US gal (76.2-101.6 µm)
- Coverage.....350-400 ft²/US gal (7.36 m²/L)
- Form and Appearance.....Milky Liquid
- Appearance on wood.....Extra Low Luster 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.....4 wet mils (152.4 µm)
- Clean-up.....Soap & Water
- Drying Time (To touch) @ 20°C (68°F).....40 minutes
- VOC (g/L).....Actual 70/Regulatory 164

PACKAGING

Available in 1 US Gallon (3.8 L), 5 US gallon (18.9 L) plastic containers and 264 US Gallon (999 L) Totes.

PREPARATION

PREPARATION IS KEY TO A SUCCESSFUL RESULT



SAND ENTIRE SURFACE WITH 80 GRIT

BRUSH USING A GOOD QUALITY DUAL PURPOSE BRUSH

- 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 grit paper and random orbital sander. Follow by sanding with 100-120 grit sandpaper only when a finer finish is required.
- 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.



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APPLICATION METHODS

- Apply coating system on an adequate test area to ensure results
- 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-52 - Gloss as the intermediate coat
- If a low gloss or matt sheen is required, use the selected sheen formula 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-30, 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-52 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 maintenance every 4-10 years depending on substrate, quality of coating system and exposure. Maintenance is necessary when the surface shows signs of wear, such as, clouding, fading or erosion. Maintaining your surface on a regular basis will ensure long-lasting color retention, dimensional stabilization and effective water repellency. Periodically, clean the surface with Sansin Multi-Wash to remove dirt and residue. Maintenance coat frequency will depend on the quality of prior preparation, substrate quality, construction quality, quality of application and degree of exposure. If fading or erosion is evident, use Sansin Multi-Wash, rinse well and allow to dry. Scuff sand for improved adhesion, apply one maintenance coat of Sansin PC KP-50 or a slightly toned version of KP-52 using the naturals colors formulas or a dilution thereof. Color, transparency, exposure, workmanship will affect the performance of the coating.

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.

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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.