APPLICATION OVERVIEW

SDF: A superior penetrating finish for siding, decks, and fences that provides lasting protection and beauty to wood. SDF has exceptional UV resistance and creates a monolithic bond with wood for long-term durability that won't crack, peel or blister. Available for on-site application or factory finish applications using Precision Coat SDF formulas.

FEATURES

- Environmentally-friendly
- Penetrating – ensuring wood stability and long term integral protection
- Low VOC
- Molecularly compatible – creates a monolithic bond with wood for long term protection
- Dimensional stabilization – reduces warping, shrinking, checking
- Non-flammable
- Nano Tints – translucent, finely ground iron oxide pigments provide exception clarity and protection
- UV protection – designed for maximum UV resistance to ensure long term maintainability
- Repels water but allows evaporation – critical to long term wood stability

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

- Siding
- Decks
- Fences
- Outdoor Furniture
- Log and Timber Homes

COLORS

Available in standard and architectural custom colors.

Formula/Base	Color	Finish
0 Base	Naturals & Translucents	Low lustre
2 Base	Saturated & Ultra Saturated	Low lustre
Deep	Solid	Low lustre
White	Solid	Low lustre

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

FORMULAS

Sansin SDF is available in pigmented and clear base formulas. Use SDF 0-Base to dilute a color for maintenance applications. Precision Coat SDF formulas for factory finishing are available from premium wood finishers in 5-20 year limited warranty systems. Use SDF Naturals Topcoat as a universal neutral wood toned finish to adequately pigmented penetrating under coats, such as SDF.

TINTABLE BASES

Sansin SDF is available in four tintable bases. SDF-0 Base for Natural and Translucent colors and SDF-2 Base for Saturated, Ultra Saturated and Deep or White Base for semi-solid and solid colors.

COATING SCHEDULE

	Natural Finish	Full Finish
1st Coat*	SDF	SDF
2nd Coat	SDF	SDF Topcoat
3rd Coat		SDF Topcoat

Apply a second coat for added protection. When applying a single coat of SDF or combined with the SDF Topcoat system, ensure adequate color strength for the Natural and Translucent tones. Consider doubling the tint load of the first coat of SDF for adequate tone and protection.

CHARACTERISTICS

- Appearance.....Natural, Translucent, Saturated & Solid
- Coloring.....Standard and Custom
- Odor.....Low
- Form.....Liquid
- Specific Gravity.....1.00-1.03
- Density.....8.3-8.4
- pH, (approx..).....8.8-9.0
- Viscosity, #2 ZAHN Cup, 20°C (68°F).....16-20 Sec.
- Solvents.....Low
- Freezing Point.....1°C (31°F)
- Dilutant.....Water
- Cleanup.....Soap & Water
- Drying Time (To Touch) @ 20°C (68°F).....<2 Hours
- Drying Time(Between applications) @ 20°C (68°F).....>2 Hours
- Cure Time.....3-4 Days
- Coverage Pending to Penetration.....265 sq.ft./ US Gal @ 6 mil or 150 micron wet
- Longer drying time needed in high humidity or low temperature
- Keep from freezing
- VOC (g/L).....Actual 32/Regulatory 152

PACKAGING

Quarts, Gallons, 5-Gallon pails

PREPARATION

PREPARATION IS KEY TO A SUCCESSFUL PROJECT

- Inspect wood surfaces for defects and make any necessary repairs.
- Use Sansin cleaner and/or wash the entire surface with a minimum 3000 PSI pressure washer use clean water.
- Sand the surface well using a 60-80 grit paper and a variable speed orbital sander.
- Follow by power washing, vacuuming or using compressed air for proper cleaning. Surface must be clean, free from dust, dirt, grease, wax or any existing coatings.



PRESSURE WASHING 3000 PSI



FINISH SANDING #60-#80 GRIT



SANSIN®

SDF™







APPLICATION METHODS

- Always flood surface to the point of saturation
- Dipping
- Brushing
- Flood coating
- Spraying – hand or automated spraying (low pressure or airless)

WORKING PROCEDURE

- Stir well before and during the application process.
- Test formula on an inconspicuous wood surface to ensure proper color and penetration.
- Apply in proper conditions with an ideal temperature of 21°C (70°F) and relative humidity of approximately 50%.
- Do not apply if rain or near freezing temperatures are expected.
- Do not expose to rain within 24 hours of coating
- Saturate the wood surface.



SHAKE CONTAINER AND STIR WELL BEFORE AND DURING USE



APPLY SANSIN SDF EVENLY BY BRUSH OR SPRAY APPLICATION

- Brush out any puddles and runs and level the finish.
- Do not apply on wood that is warm to touch or in direct sunlight.
- Apply a second coat after 2 hours for added protection. When applying just one coat be sure to apply adequately and consider doubling the tint load for Natural and Translucent formulas.

MAINTENANCE

Vertical surfaces require maintenance every 3-6 years. 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 repellency. Periodically, clean the wood surface with a power washer or Sansin Multi-Wash to remove dirt and residue. How frequently maintenance coats are required will depend on the quality of prior preparation, quality of application, number of coats, weathering and exposure levels. If fading or erosion is evident, prepare wood by using a power washer to lightly clean the wood surface; or use Sansin Multi-Wash. Then re-apply one maintenance coat of Sansin SDF according to instructions. Use SDF 0-Base to dilute color intensity up to 50%.

STORAGE

Shelf life when stored in ideal conditions is 18 months. Store at a temperature of between +10ºC and + 30ºC (50ºF and 86ºF). 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. 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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NOVEMBER 2025

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