

**ENS: Extremely durable two-coat finish for exterior vertical and horizontal surfaces where a medium lustre full finish is desired. Exceptional performance on most substrates including dry wood, metal or composites. For bare wood, always use an adequately pigmented undercoat such as Dec, Classic or SDF.**

FEATURES

- Environmentally friendly
- Tremendous adhesion
- High solids
- Glass like premium finish
- Tough and durable
- Lasting color
- Exceptionally UV resistant and stable
- Water repellent
- 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

- Interior/exterior
- Millwork
- Above ground horizontal and vertical surfaces
- Wood, metal or composites
- Wood and fiber glass windows, doors and outdoor furniture

COLORS

Available in standard and architectural custom color paints and finishes.

Formula/Base	Color	Finish
Optimum Clear	Clear	Gloss, Satin, Low Lustre, Extra Low Lustre
Naturals Topcoat	Naturals	Satin
0 Base	Naturals & Transluents	Satin
2 Base	Saturated	Satin
Deep	Solid Color	Satin
White	Solid Color	Satin

FORMULAS

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

CHARACTERISTICS

- Form and Appearance.....Milky Liquid
- Appearance on wood.....Satin
- Coloring.....Standard
- Odor.....Low
- Specific Gravity (g/cm3).....1.00-1.03

- Density (lbs/gal).....8.3-8.4
- pH.....8.8
- Viscosity, #2 Zahn Cup.....60-70 sec
- Reduce as necessary with up to 5% water
- Solvents.....Low
- Solid Content.....40% +/-1%
- Freezing Point.....-1°C (31°F)
- Diluent.....Water
- Sag resistance......5 wet mil min.
- Clean-up.....Soap & Water
- Drying Time (To touch) @ 20°C (68°F).....40 Minutes
- Drying Time (Between applications) @20°C (38°F).....4 hours
- Wet Film Thickness.....3.5-4.5 Wet Mils/US gal
- Coverage......350-450 sq.ft./US gal
- Dry time effected by humidity and temperature
- VOC (g/L).....Actual 70/Regulatory 164

PACKAGING

Quarts, Gallons, and 5-Gallon pails.

PREPARATION

**PREPARATION IS KEY TO A SUCCESSFUL PROJECT**



SAND ENTIRE SURFACE



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 minimum 3000 PSI pressure washer using clean water.
- Sand the surface well using 60-80 grit paper and random 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.

APPLICATION METHODS

- For previously coated surfaces apply 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 shear pumps.
- For a gloss finish, apply ENS Optimum Clear mixed 90:10 with the base color for the final coat.

**ENS™**

ENVIRO STAIN®





- If a low lustre sheen is required, use Optimum Clear. Use Optimum Clear Gloss for intermediate coats.

## WORKING PROCEDURE

- For transparent exposed surfaces use a penetrating first coat like Classic, SDF, DEC or KP-12 to improve moisture and UV protection while optimizing esthetics.
- 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.
- 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 3 mils for optimum protection.
- Do not overwork ENS 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 in near freezing temperatures.

## MAINTENANCE

Horizontal and vertical services require maintenance every 4-5 years. Maintenance is necessary when the surface shows signs of wear, such as fading or erosion. Low lustre finishes require more frequent maintenance than satin or high lustre finishes. 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 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 ENS according to instructions. Exposure, workmanship and color 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. 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.