

SICO
FORMULA 77

EXTERIOR, SEMI-TRANSPARENT WOOD FINISH, STAIN AND SEALER

Oil-based product

Product Description

Semi-Transparent Stain and Sealer is a premium oil based that provides a beautiful finish with a flawless one-coat application. Designed with a streak free performance that results in no runs and no laps, it's an easy-to- use formula to get your woodcare project done faster. Available in 8 ready-mix colours, it's recommended for decks, fences, siding and other outdoor wood surfaces.

Features

- One-Coat application: Apply by brush, roller, pump-up sprayer or airless sprayer; no backbrushing required on vertical surfaces.
- No laps, runs or streaks: Penetrates Deep for a Flawless Finish.
- No cracking, flaking or peeling.
- Ideal for cedar and pressure-treated wood.
- Excellent colour retention.
- Excellent water and weather resistance: Protects wood from water damage and UV damage.
- Excellent UV blocking.
- Easy and ready to use.
- GRAB-N-GO® (ready-mixed colour).
- Fortified with Penetrol® additive for excellent penetration.
- Formulated to resist mildew growth on the coating film.
- Application between 2°C (35°F) to 49°C (120°F).

Available Colours

136-710 Natural Cedar, 136-720 Pecan, 136-730 Dark Walnut, 136-740 Mahogany, 136-750 Natural, 136-760 Burnt Hickory, 136-770 Mission Brown, 136-780 Redwood.

*Colour shown is produced using a printing process. There may be a slight difference between the colour shown and the actual stain.

Projects

Environment

Exterior only. Wood only.

Use

New and maintenance work.

Residential and commercial sites.

Vertical and horizontal exterior surfaces: decks, fences, siding, railings, outdoor furniture, and other wood surfaces.

Recommended for use on all types of properly prepared, exterior wood.

Surfaces

- Ideal for cedar and pressure-treated wood.
- Product may be applied over wood previously coated with a weathered, semi-transparent stain in sound condition.

Notes

- While this product provides a mildew-resistant coating, growth may still occur if the substrate is not properly prepared prior to painting and/or if the substrate is consistently exposed to conditions conducive to mould, mildew, and algae. Examples of these conditions include, but are not limited to areas that are consistently damp with little to no direct sunlight.
- Wood must have less than 12% moisture.
- Use on exotic hardwoods may affect coverage, dry time, and durability.
- Do not use on torrefied wood.
- This product is incompatible with preservatives and waterproof stains containing wax.
- Drying will take longer at low temperatures or under high conditions of humidity. Notice: High and continuous moisture content, insufficient ventilation of wood or intensive traffic (decks) prematurely reduces the product durability or can cause peeling.
- Do not mix this product with other paints, stains or thinners.

SATISFACTION GUARANTEED: The manufacturer warrants your complete satisfaction with the performance of this product for as long as you own or reside in your home when our product has been applied and maintained according to label directions. This satisfaction guarantee is non-transferable. The manufacturer does not warrant against problems with the product which are caused by factors beyond its control, such as structural defects, damage to the coating film by others, poor condition of the substrate, improper application, etc. If not satisfied as warranted, return the unused portion along with sales receipt to place of purchase. You will receive as your exclusive remedy either a refund of the price paid for the product or replacement with product of equal value. This warranty specifically excludes labour or costs of labour for the removal or application of any coating and indirect, special, consequential, and incidental damages.

Technical Specifications (21°C (70°F))

Appearance

Semi-transparent colour

Gloss Level

Satin Flat finish

- Gloss at 60°: Not available
- Gloss at 85°: Not available

Composition

- Diluent: Mineral spirits
- Binder: Alkyd- Oil

Drying*

- Touch dry: 24 hours
- Before recoating: One coat application
- Prior to withstanding rain:

Few minutes for vertical surfaces

24 hours for horizontal surfaces

- Prior to light foot traffic: 24 to 48 hours
- Before replacing the furniture: 24 to 48 hours
- Full curing: 14 days

When relative humidity is higher than 50%, double the required time.

High humidity or low temperatures extend drying and recoating times.

Drying times listed may vary depending on temperature, humidity, colour, film build, and air movement.

Spreading Rate per Coat

On rough and weathered surfaces, 28 to 37 square metres (300 to 400 sq. ft.) per 3.78 L. On smooth surfaces or hardwoods, 37 to 46 square metres (400 to 500 sq. ft.) per 3.78 L.

Coverage figures do not include material loss due to application.

Volatile Organic Compounds (VOCs)*

- According to ASTM D3960-05: < 275 g/L

Solids by Volume* 68 ± 2%

Flammability Combustible

Flash Point* 42°C (108°F)

*Technical data source: 136-750

Surface Preparation

Surface must be clean and dry. Remove all dust, dirt, mildew, oil, loose wood fibres, and other contaminants. Product may be applied over wood previously coated with a weathered, semi-transparent stain in sound condition. Remove loose, peeling stain by sanding, scraping, or wire brushing. Previous stain not in sound condition should be completely removed. To ensure proper penetration, weathered, dirty, or mildewed surfaces should be cleaned with a wood cleaner prior to applying stain. After rinsing, allow wood to dry. Sand if necessary. Sand all cleaned wood using 80–120 grit sandpaper for vertical surfaces and 60–80 grit sandpaper for horizontal surfaces. Always sand in direction of the wood grain and remove sanding dust. Test wood for absorbency by sprinkling water on the surface – if water is absorbed within 30 sec. to 2 min., depending on climate, the surface is ready for staining.

▶ Remove mildew with a solution of household bleach (1 part household bleach to 3 parts of water). Wear rubber gloves and eye protection. Apply with a garden sprayer or a heavy nap roller cover and scrub surface with a hard bristle brush. Rinse thoroughly with clear water.

▶ Surfaces in poor condition: Depending on the condition; - Remove all loose or peeling stain by sanding to smooth edges; - or remove any trace of stain with a stripper or a pressure jet, depending on the surface condition. Clean with exterior wood cleaner, brightener and conditioner. Rinse well with clear water.

▶ Wood treated with a water-repellant product containing wax: Strip the surface.

▶ **TANNIN BLEEDING:** Some woods, such as redwood and cedar, contain natural, water-soluble tannin, a coloured wood extract, which tends to “bleed” or migrate to the surface. If tannin bleeding occurs, allow the coating to dry completely, then wash with a mild detergent solution and rinse with clear water.

PRECAUTION: Dry sanding will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. Wear suitable respiratory protective equipment when exposure cannot be avoided by adequate local ventilation.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. Contact a regional Health Canada office for more information.

If wood exudes resin, scrape the excess and clean surface with alcohol or paint thinner.

Once the surface is dry and free of any contaminant, apply following the recommended application conditions.

▶ Previously stained wood in good condition: Wash well with a Sico cleaner 771-333A or an appropriate cleaner. Rinse well. Sand lightly with #80 sandpaper.

▶ Old cracked or warped boards must be replaced.

▶ Repair holes and cracks with a paste filler or a joint compound suitable for the surface to be repaired.

▶ If wood exudes resin, scrape the excess and clean surface with alcohol or paint thinner.

▶ At the end of the surface preparation, rinse well with water. If water beads, surface preparation must be repeated.

▶ Once the surface is free of any contaminant, wait 16 hours after light rain and 24 hours after moderate or heavy rain or pressure jet washing before to apply the product under the recommended conditions of application.

Recommendations

Application Conditions

Temperature: 2°C (35°F) to 49°C (120°F)
Relative humidity: Ideal 50% relative humidity, maximum 85%.

Surface must be at a temperature at least 3°C (5°F) higher than dew point. Do not apply in direct sunlight or during windy conditions. Application conditions must be maintained during stain application and drying. High humidity or low temperatures extend drying time.

Tools

- Paintbrush: Natural bristles.
- Roller: 10 -15 mm lint-free nap roller.
- Spray gun : Pump-up sprayer or Airless sprayer (.011-.013" and 700-1200 psi).

Always use top quality application tools. If rolling, back brush immediately on the horizontal surfaces.

Cleaning Tools

Clean brushes and tools with mineral spirits. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH FORMULA 77® STAIN MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.

Storage and Transportation

Disposal

Consult your municipality about proper disposal procedure of residue in accordance with the laws and respect the environment. Do not pour down a drain or storm sewer.

Application

Apply when air and surface temperatures are 2°C (35°F) to 49°C (120°F) and will remain above 2°C (35°F) for the next 24 hours. Product withstands light rain minutes after application on vertical surfaces, such as fences. For horizontal surfaces, such as decks, it is recommended to apply when no precipitation is expected for 24 hours. DO NOT THIN. Intermix containers to ensure colour uniformity. Stir thoroughly and often during use. Apply to a small area and allow stain to dry to ensure acceptable appearance and penetration. Apply one thin coat with a high-quality brush, roller, or with a pump-up or airless sprayer. For horizontal surfaces, such as decks, do not overapply or allow to puddle, back-brush if applied by roller or spray. For vertical surfaces, no back-brushing is necessary. If using a pump sprayer, apply to one board at a time vertically 15 to 20 cm (6" to 8") from wood. Laps, runs or streaks will level out and blend into the wood.

CAUTION: Surfaces are slippery when wet; use caution when walking on wet surfaces.

Important: High and continuous moisture content, insufficient ventilation of wood, or intensive circulation (decks) prematurely reduces the product durability or can cause peeling.

Application in high humidity or in temperatures below 10°C (50°F) may prolong drying times. Dries to light foot traffic in 24 to 48 hours. Wait 24 to 48 hours to replace furniture. Wait at least 30 days before washing.

It is One-Coat Application.

For more information, visit the website at www.sico.ca or call our customer service: 1-866-660-2220.

Safety Measures

POISON IRRITANT READ INSTRUCTIONS BEFORE USING DANGER OF COMBUSTION. CONTENTS HARMFUL. MAY IRRITATE EYES.

Do not swallow. Do not get in eyes. Keep away from flames or sparks. Materials such as rags used with this product may begin to burn by themselves. After use, put rags in water or lay flat to dry, then discard. Keep out of reach of children. Wear protective gloves and eye/face protection: Chemical splash goggles. Use chemical resistant, impervious gloves. **Note: These warnings encompass the product series. Prior to use, read and follow product-specific SDS and label information.** **FIRST AID TREATMENT:** Contains: Naphtha (petroleum), hydrotreated heavy; Solvent naphtha (petroleum), medium aliph.; 2-ethylhexanoic acid, zirconium salt; cobalt bis(2-ethylhexanoate); 2-ethylhexanoic acid, manganese salt; bis (1,2,2,6,6,6-pentamethyl-4-piperidyl) sebacate; 2-butanone oxime; 4,5-dichloro-2-octyl-2H-isothiazol-3-one; carbon black; Paraffin waxes and Hydrocarbon waxes. If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. Sanding and grinding dusts may be harmful if inhaled. Inhalation of high concentrations of vapour may affect the central nervous system. Repeated exposure to high vapour concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Contains isothiazolinones. May cause allergic reaction. Keep container tightly closed and sealed until ready for use. For workplace use, an SDS is available from your retailer or by calling 1-800-463-7426 (Canada). EMERGENCY SPILL INFORMATION: (412) 434-4515 (U.S.), (514) 645-1320 (Canada).

Surface Maintenance

- Wait for its full curing before washing the product or testing its adhesion: minimum 30 days depending on temperature and relative humidity (longer in conditions of high humidity or low temperature).
- The level of sun exposure drive the maintenance frequency. Chalking and colour fading are natural aging characteristics between maintenance coats.
- Maintenance varies according to usage and place. To maintain the products protective characteristics, apply a maintenance coat when visibly required.
- High and continuous moisture content, insufficient ventilation of wood or intensive traffic (decks) prematurely reduces the product durability or can cause peeling.

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