

Product Description

Cetol 1 RE (Reduced Emissions) Wood Finish is a premium, translucent finish for exterior wood.

It is generally used as the first (and possible second) coat in the Cetol 1 RE/Cetol 23 Plus RE protective systems. The Cetol 1 RE/Cetol 23 Plus RE protective systems provide a durable, rich film that will protect from harmful UV rays and minimize peeling and blistering.

May also be used on its own as a 2-coat system for specific purposes (i.e. outdoor furniture and fences).

Recommended Uses

New or maintenance work.

Residential and commercial sites.

Vertical wood surfaces only: bare wood siding, railings, shutters, walls, doors, trim, logs, fences or outdoor furniture.

Exterior only.

Surfaces

Properly prepared exterior bare wood vertical surfaces.

Features & Benefits

- Good wood surface penetration.
- Ready for use and easy to apply.
- Microporous product; which is waterproof, but allows wood to breathe.
- Complies with the Canadian Volatile Organic Compound (VOC) Concentration Limits for Architectural Coatings Regulations requirements.

Colour Range

Consult your retailer for more information on product and size availability.

- SIK41005 Natural Oak
- SIK41009 Dark Oak
- SIK41020 Ebony
- SIK41045 Mahogany
- SIK41072 Butternut
- SIK41077 Cedar
- SIK41078 Natural
- SIK41085 Teak
- SIK41996 Natural Light

Notes

Wood Finish colour Natural Light will weather faster than others.

The moisture content of wood must be below 18%.

Do not use on floors.

This product is not to be mixed with other paints, stains or thinners.

Characteristics (21°C (70°F))

Appearance	Translucent
Finish	Satin finish
Composition	• Diluent: Hydrocarbons • Binder: Alkyd & Penetrating linseed oil in solution
Flammability	Combustible liquid
Flash Point*	49°C (120°F)
Viscosity*	Ready to use (20 ± 5 (Ford cup #4))
Density*	0.9 ± 0.1 kg/L
Solids by Weight*	71%
Solids by Volume*	66%
Volatile Organic Compounds (VOCs)*	According to ASTM D3960-05: < 275 g/L Canadian regulation: < 350 g/L

*Technical data source: SIK41078

Recommendations

- Tools**
- Paintbrush: Natural bristles.
 - **Roller: 10 mm (3/8 in.).
 - Spray** (airless equipment)
 - tip size*: 0.011 - 0.015 in
 - Pressure*: 700 to 800 psi.
- * Spray recommendations may vary depending on manufacturer.
** Roller or spray, back brush immediately on the surface.

Spreading Rate per Coat

- Smooth Wood: 23 to 32.5 m² (250 to 350 ft²) for 3.78 L;
- Rough Wood: 18.5 to 28 m² (200 to 300 ft²) for 3.78 L.

(Excluding losses caused by variations in application methods or surface porosity)

Cleaning Tools

Remove as much product quantity as possible and clean tools with mineral spirits immediately after use.

Drying Time*

- Touch dry: 6 hours
- Before recoating: 24 hours
- Prior to withstanding rain: 48 hours

If relative humidity is higher than 50%, required time must be doubled.

Application Conditions

Temperature: 10 to 32°C (50 to 90°F)
(ideal 20°C ± 5°C [68°F ± 9°F]).

Relative humidity: Ideal between 15 and 50%, maximum 85%.

Do not apply when dew is imminent, in direct sunlight, on a warm surface or during windy conditions.

Application conditions must be maintained during product application and drying.

Do not apply if lower temperatures are expected within: 3 to 6 hours.

Do not apply when rain is expected within: 48 hours.

High humidity or low temperatures extend drying time.

Surface Preparation

All surfaces must be thoroughly clean, solid and dry. Remove all dust, dirt, chalking, oil, wax, mildew, sanding dust, mill glaze, poorly adhering old coatings, natural extractives and other surface contamination. Follow the preparation steps, as described below:

▶ Spray all wood surfaces with clean water, completely wetting the wood.

→ Mix a solution of 120 g (4 ounces) of 100% powdered Tri-Sodium Phosphate (TSP) in 3 litres of water then add 1 litre of liquid bleach.

OR: Use a phosphate-free substitute in accordance with the fabricant's directions for use. Apply, scrub and power wash as describe below. Then wash with a solution of household bleach (1 part household bleach to 3 parts of water).

Wear rubber gloves and eye protection.

→ Apply one of these solutions with a garden sprayer or a heavy nap roller cover. Let the solution sit on the wood for 15 to 20 minutes.

During this period, scrub the surface with a hard bristle brush to help remove mill glaze and/or weathering. Do not allow solution to dry on the surface. Keep it wet.

→ Power-wash wood surface clean with fresh water using 500-800 psi with the nozzle 20 to 30 cm (8-12 in.) away to remove cleaning solution.

▶ Weathered gray wood, wood affected with blue fungi or rust from nails may be treated, after cleaning with the TSP solution, by applying a solution of 115 g of oxalic acid crystals in 4 litres of warm water.

• This solution should be allowed to sit on the affected area for 15 to 20 minutes before the final rinse with a power washer.

• DO NOT LET THE SOLUTION TO DRY ON THE WOOD SURFACE.

▶ PREVIOUSLY COATED WOOD: Previous coatings must be completely removed prior to application once previous coating is removed, clean and prepare surface.

▶ NEW OR BARE WOOD: Sand cleaned wood using 80-120 grit sandpaper. Always sand in direction of the wood grain.

▶ Eliminate sanding residues.

PRECAUTION: Dry sanding of dry coatings 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.

▶ Old cracked or warped boards must be replaced.

▶ Coating should be applied within 7 days for horizontal surfaces (outdoor furniture) and 4 weeks for vertical surfaces (siding).

▶ Allow wood to dry at least 48 hours in dry weather. Wood must reach a moisture content of 18% or less before finishing.

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

NOTICES: Exotic hardwoods exhibit a dense cell structure which may reduce the ability of a coating to penetrate the wood surface.

• For application on exotic hardwood, wipe the surface with acetone immediately prior to application.

Systems recommendation according to surfaces

Standard Application Procedure:

The Cetol 1 RE/Cetol 23 Plus RE protective systems is:

- 1 coat of Cetol 1 RE,
- 2 coats of Cetol 23 Plus RE.

Allow a minimum of 24 hours dry time between coats.

New pressure-treated wood:

New pressure-treated wood, allow 6 weeks of weather exposition before preparation and application.

The Cetol 1 RE/Cetol 23 Plus RE protective systems is:

- 1 coat of Cetol 1 RE,
- 2 coats of Cetol 23 Plus RE.

Allow a minimum of 24 hours dry time between coats.

Wood treated with wax or water-repellent:

For wood treated with wax or water-repellent, allow the wood to weather for at least one year before preparation and application

The Cetol 1 RE/Cetol 23 Plus RE protective systems is:

- 1 coat of Cetol 1 RE,
- 2 coats of Cetol 23 Plus RE.

Allow a minimum of 24 hours dry time between coats.

Outdoor furniture or fence:

Since outdoor furniture and fences are considered to be in a high moisture environment, it is recommended to apply 2 coats of Cetol 1RE.

Allow a minimum of 24 hours dry time between coats.

Kiln-dried or Air Dried Logs:

Generally, the moisture content of these logs is below 18%.

However, some logs may have moisture content higher than 18%.

Therefore, we recommend:

- 1 light coat of Cetol 1 RE.
- Allow one year weathering.

Follow the surface preparation procedure before applying.

- 2 coats of Cetol 1 RE,
- 1 coat of Cetol 23 Plus RE.

Allow a minimum of 24 hours dry time between coats.

Application

This is a ready-to-use product, do not thin. Stir thoroughly the product before and during application.

Before starting, test your colour choice on a small area.

Intermix batches for colour consistency. Pour the quantity of product needed into another container to avoid contaminating the original container. Keep containers closed when not in use.

APPLY OUTDOORS.

Apply evenly, in the direction of the grain avoiding heavy application. Air and surface temperature must be between 10°C (50°F) and 32°C (90°F). Application using a brush is the preferred method, if not back brush immediately to ensure penetration and to avoid an uneven finish.

Do not apply in direct sunlight, if rain, snow, heavy dew or low temperatures below 10°C (50°F) are expected within 48 hours. Follow the spreading rate.

For maximum protection, wood must be stained on all 6 sides. Saturate all end grains, nail holes and cracks in the wood.

To help avoid lap marks, stain only a few boards at a time and keep a wet edge.

NOTE: Tannin containing woods such as redwood, red cedar, mahogany, Douglas fir, etc. contain tannic acid which tends to migrate to the surface and can discolour the finish. The discolouration is not harmful and can usually be removed by cleaning with a solution of 120 g of oxalic acid to 3.78 L of warm water. Apply with a garden sprayer or heavy nap roller cover. Allow to sit on surface for 20 min. Rinse thoroughly with clean water. **DO NOT ALLOW** solution to dry on wood surface.

For more information on application methods, visit the website at www.perfectwoodstains.ca or call our customer service: 1-800-463-7426.

Safety Measures

CAUTION: Read the Material Safety Data Sheet. Avoid contact with eyes. Keep out of reach of children. Do not intentionally breathe vapours. Use only in well ventilated areas.

CONTENTS HARMFUL. DANGER OF COMBUSTION. MAY IRRITATE EYES. Do not swallow. Do not get in eyes. Keep away from flames or sparks. Wear eye/face protection or chemical splash goggles. Use chemical-resistant, impervious gloves. 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.

Use only in well ventilated areas. Do not intentionally breathe vapour.

FIRST AID TREATMENT: If in contact with eyes, rinse thoroughly with clear water for 15 minutes. If swallowed, do not induce vomiting. Call poison centre or physician immediately. Contains medium aliphatic solvent naphtha, Stoddard solvent, linseed oil, silicon dioxide, naphtha (petroleum), hydrodesulfurized heavy, amorphous silica, xylene, 2-butanone oxime, cobalt bis(2-ethylhexanoate), 1,2,4-trimethylbenzene, ethylbenzene, ethanol.

Surface Maintenance

- Wait for its full curing before washing the coating or testing its adhesion: minimum 7 days.
- Proper maintenance starts with visual inspection. To maintain the products protective characteristics, apply a maintenance coat when visibly required.

SURFACES PREPARATION FOR MAINTENANCE:

- Clean surface with an appropriate cleaner.
 - Rinse well, thoroughly wet the wood. If required do not allow to dry.
 - Mix 60 g (2 oz.) of trisodium phosphate (TSP) in 3 L of water, add 1 L of liquid bleach. Apply generously this solution with a garden pump sprayer to the surface. Wear rubber gloves and eye protection. Scrub with a hard brush for 15 to 20 minutes to remove mildew and greyed wood fibres.
 - Do not allow solution to dry on the surface.
 - Power wash cleaning solution from the wood with plenty of clean fresh water. To prevent damaging the wood, do not exceed 500 psi with the nozzle 30 cm from the surface for full effectiveness of the cleaning and to prevent damage to the wood. Use of a home garden hose (approximately 60 psi) is not suitable – proper power washing equipment must be used for maximum effectiveness.
 - Allow the surface to dry for at least 3 days in dry weather or until it has reached a moisture content of 18% or less before finishing.
- Apply 1 coat of Cetol 1RE, Cetol 23 Plus RE or 1 coat of Cetol Maintenance RE depending of the required system. Please refer to the concerned product Technical Data Sheet for specific guidelines.

Storage and Transportation

Keep in a dry and ventilated area, between 10 and 32°C (50 and 90°F).
Shelf Life: 5 years, unopened stored away from excessive heat/direct sunlight.

Limited Warranty

PPG Architectural Coatings Canada, Inc. warrants performance of its products to its intended use if properly applied in accordance with the label directions and the specifications of the technical data sheet. Having no control over the application methods and conditions or the circumstances related to its use, no other warranty, expressed or implied, statutory or otherwise is given. This limited warranty extends only to the original purchaser of the product and is not transferable or assignable. If the product fails to conform to this limited warranty, we will, at your option, furnish replacement product or refund the purchase price. This limited warranty excludes (1) labour or costs of labour for the application or removal of any product and (2) all other direct, indirect, incidental, special or consequential damages.

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