

DESCRIPTION

Cetol[®] 23 Plus RE (Reduced Emissions) Top Coat is a premium, translucent exterior wood finish that is can only be used as the topcoat in the **Cetol 1 RE/Cetol 23 Plus RE** system. When used as a system, this product provides a durable, rich film that will protect from harmful UV rays and minimize peeling and blistering. The inclusion of translucent iron oxide pigments and UV absorbers gives excellent UV protection and color retention.

Cetol 1 Wood Finish or Cetol 1 Re Wood Finish MUST be applied to properly prepared wood as the basecoat before applying the Cetol 23 Plus RE Top Coat.

FEATURES

- Premium Protection for Exterior Wood
- For Siding, Trim, Doors, Garage Doors, Logs and Outdoor Furniture

COMPOSITION

- Alkyd Resin
- Not manufactured with lead or mercury containing materials

SHIPPING

FREIGHT CLASSIFICATION:

Paint, Freezable

PACKAGING:

1 gallon (3.785 L)
5 gallons (18.925 L)

FLASH POINT:

122° F (50° C)

SPECIFICATION DATA

*Specification data may vary with product color.

Color:

Natural	Mahogany
Natural Oak	Dark Oak
Butternut	Cedar
Teak	

Clean-up Solvent:

Mineral Spirits

*Density:

8.35 - 8.40 lbs/gal (1.0 - 1.01 kg/L)

VOC:

350 g/L (2.92 lbs/gal) maximum
Refer to MSDS for regulatory VOC content of complete product line

*Solids:

Volume - 51.3% +/- 1%
Weight - 57% +/- 1%

Practical Coverage:

On rough and weathered surfaces,
200-300 sq ft/gallon (5-7 m²/L).
On smooth surfaces or hardwoods,
250-350 sq ft/gallon (6-9 m²/L).
Actual coverage may vary depending on the type, age and texture of the wood and application method.

Flash Point:

122° F (50° C)

Dry Time 77°F (25°C) & 50% RH:

To touch - 6 hours
To recoat - 24 hours
To furniture - 7 days
Low temperature, high humidity or poor ventilation will increase these times. Avoid heavy abrasions immediately following application

DANGER! COMBUSTIBLE. HARMFUL OR FATAL IF SWALLOWED.

Read label and Material Safety Data Sheet Prior to Use. See other cautions on last page. DSF2-0790

SURFACE PREPARATION

GENERAL SURFACE PREPARATION: All wood surfaces must be thoroughly clean, dry and free of dirt, grease, grime, mildew, mill glaze and previous coatings before applying **Cetol 1 RE Wood Finish**.

Cleaning Recommendations:

1. Spray all wood surfaces with clean water, completely wetting the wood.
2. Generously apply a cleaning solution of four (4) ounces of 100% powdered Tri-Sodium Phosphate (TSP) or phosphate-free substitute with one (1) quart of liquid bleach and three (3) quarts of water to the wood surfaces with a garden sprayer or a heavy nap roller cover.
3. Let the solution dwell on the wood for 15-20 minutes as you scrub the surface with a hard bristle brush to help remove mill glaze or weathering. **Do not allow solution to dry on the wood surface.**
4. Power wash cleaning solution from the wood with plenty of clean fresh water using 500-800 psi with the nozzle 8-12 inches from the surface for full effectiveness of the cleaning and to prevent damage to the wood.
5. Allow the surface to dry for 48 hours, or to have a moisture content of 18% or less before finishing.
6. For achieving optimum wood surface porosity and natural uniformity sand all pre-cleaned wood using 80-120 grit sandpaper for vertical surfaces and 60-80 grit sandpaper for horizontal surfaces. **Always sand in the direction of the wood grain and remove sanding dust.**
7. **Cetol 1 Re Wood Finish and Cetol 23 Plus RE Top Coat** should be applied within one week of preparation for horizontal surfaces (decks) and within four weeks for vertical surfaces (siding), provided that the surface remains free of dirt, grease grime, mildew.

DIRECTIONS FOR USE

APPLICATION:

CAUTION: Surfaces are slippery when wet. Use caution when walking on wet surfaces during application.

Test wood for absorbency by sprinkling water on the surface – if water is absorbed within 30 seconds – 2 minutes, depending on climate, the surface is ready for finishing. If water is not absorbed, wait 30 days and re-test.

1. Before starting, test your color choice on a small area, applying all three coats of application system. **Cetol 1 Re Wood Finish and Cetol 23 Plus RE Top Coat** color Natural Light will weather faster than others. This color is not recommended for use on darker colored woods.
2. Buy sufficient product for the whole job and intermix all product together before starting to avoid color variance.
3. Stir thoroughly before and periodically during application.
4. Do not thin.
5. Apply when air and surface temperature is between 50° F (10° C) - 90° F (32° C).
6. Do not apply in direct sunlight, if rain, snow, heavy dew or low temperatures below 40° F (4° C) are expected within 48 hours.
7. Brushing is the preferred method of application, using a natural bristle brush. If applied by roller or airless sprayer, back brush immediately to ensure penetration and to avoid an uneven finish. For airless spray, use a .009"-.011" tip at 700 - 800 psi, adjust pressure as needed.
8. Apply one even coat of **Cetol 1 Re Wood Finish**, avoiding heavy application.
9. Allow to dry a minimum of 24 hours.
10. Must be top coated with two coats of **Cetol 23 Plus**, following label application directions.
11. Apply in the direction of the grain.
12. To avoid lap marks, start at one edge and follow through to the end of each board maintaining a wet edge.

PRECAUTIONS

DANGER! COMBUSTIBLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD - CAN ENTER LUNGS AND CAUSE DAMAGE. HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. OVEREXPOSURE MAY CAUSE BLOOD, LIVER, KIDNEY DAMAGE. USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Products in this series contain solvents. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. For emergency information call (800) 545-2643. **Note: These warnings encompass the product series. Prior to use, read and follow product-specific MSDS and label information.** Keep away from heat, sparks and flame. **Do not smoke.** Vapors may ignite. Extinguish all flames, burners, stoves, heaters and pilot lights and disconnect all electrical motors and appliances before use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. If sanding, wear a dust mask to avoid breathing of sanding dust. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. Avoid contact with eyes and skin. If you experience eye watering, headaches, or dizziness, leave the area. If properly used, a respirator may offer additional protection. Obtain professional advice before using. Close container after each use. **FIRST AID:** For skin contact, wash thoroughly with soap and water. If any product remains, gently rub with petroleum jelly, vegetable or mineral/baby oil then wash again with soap and water. Repeat as needed. Remove contaminated clothing. For eye contact, flush immediately with plenty of water for at least 15 minutes. **Get medical attention.** If swallowed, **get medical attention immediately.** If inhalation causes discomfort, remove to fresh air. If discomfort persists or breathing difficulty occurs, get medical attention. **KEEP FROM FREEZING.** DS359-0306

NEW WOOD - Clean and prepare all wood surfaces as specified under **GENERAL SURFACE PREPARATION**. Pressure treated wood must be properly seasoned, dry with a moisture content of 18% or less and free of salts and other water soluble materials before applying stain. Water-repellent treated lumber requires one year minimum of weathering prior to cleaning and application.

EXOTIC HARDWOOD - Ipe, mahogany, iron wood, tiger wood and teak woods exhibit a dense cell structure which may reduce the ability of a coating to penetrate the wood surface. Clean and prepare surface as specified under **GENERAL SURFACE PREPARATION**. *Immediately prior to applying coating, wipe surface with acetone.*

WEATHERED UNCOATED WOOD - Clean and prepare surface as specified under **GENERAL SURFACE PREPARATION**.

PREVIOUSLY COATED WOOD - Previous stains, varnishes or sealers must be completely and thoroughly removed prior to application of **Cetol 1 Re Wood Finish**. After removal of previous coatings. Clean and prepare surface as specified under **GENERAL SURFACE PREPARATION**.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear an NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

13. Coat all end grains and the back of all boards if possible.
14. **Cetol 23 Plus RE Top Coat** is not recommended for outdoor furniture or fences. Since outdoor furniture and fences are considered to be in a high moisture environment three coats of **Cetol 1 Re Wood Finish** would be your best method of application.

NOTE: Tannin containing woods such as redwood, red cedar, mahogany, douglas fir, etc. contain tannic acid which tends to migrate to the surface and discolor the stain, especially noticeable when using white or light colors. The discoloration is not harmful and can usually be removed. Apply a cleaning solution of four (4) ounces of oxalic acid to one gallon of warm water using a garden sprayer or a heavy nap roller cover. Allow solution to dwell on surface for 20 minutes then thoroughly rise with clean water. DO NOT ALLOW solution to dry on wood surface.

COVERAGE:

On rough and weathered surfaces, 200-300 sq ft/gallon (5-7 m²/L). On smooth surfaces or hardwoods, 250-350 sq ft/gallon (6-9 m²/L). Actual coverage may vary depending on the type, age and texture of the wood and application method.

DRY TIME @ 77°F (25°C) & 50% RH:

Dries to touch in approximately 6 hours. Dries to recoat in 24 hours additional coat may increase these times. Wait 7 days before using furniture. Low temperature, high humidity, thick films or poor ventilation will increase these times. Avoid heavy abrasions immediately following application.

CLEANUP AND STORAGE:

Clean tools immediately with mineral spirits. Clean spills right away with a damp cloth.

MAINTENANCE PROCEDURES: To maintain the products protective characteristics apply a maintenance coat, when visibly required or sheen appears dull and before wood starts to turn grey. Clean and prepare surface as specified under **GENERAL SURFACE PREPARATION**. Areas that show minimal wear should only be lightly coated. Hardwoods and lighter colors may require more frequent maintenance.



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