



Technical Data Sheet

Cetol 1

General Description

Cetol 1 is a premium, translucent, exterior wood basecoat to be used with Cetol 23 Plus. Its superior oil/alkyd formulation offers excellent penetration and adhesion to a vertical wood surface.

Recommended Uses

Normally used as the first and possible second coat for the Cetol 1- Cetol 23 Plus system. May also be used on its own as a 3-coat system for specific purposes: (i.e. outdoor furniture and fences)

May be used on:

Siding	Trim	Logs
Garage Doors	Window Frames	Fences
Entrance Doors	Outdoor Furniture	

Product Data

Gloss:	Satin
Viscosity Poise:	14.5 -16" Ford Cup 4/23 C (73.4 F)
Weight per Gallon:	7.22 - 7.41
Solids by weight:	38 - 40.1 %
Solids by volume:	31.8 - 33.6%
VOC:	550 g/L
Flash Point:	104° F

Features and Benefits

- **Translucent Iron Oxide Pigments**

Improved clarity and color retention; protection from graying

- **Alkyd/Oil Blend**

Excellent penetration, flow, and durability

- **Microporous**

Allows wood to breathe, minimizing peeling and blistering

- **Translucent Film Forming Finish**

Base-coat for the Cetol 1 & Cetol 23 Plus system which offers a satin sheen.

Application

Method - Long-haired, natural-bristle brush.
Spray or roller not recommended.

Surface & Air Temperature - 50° - 95°F
10° - 35° C

Thinning - None; ready to use after stirring well.

Coverage (approximate)-

Smooth wood - 250-350 sq. ft. / gal.
6-8.5 sq. sq. m. / L.

Rough wood - 200-300 sq. ft. / gal.
2.5-3.75 sq. m. / L.

Cleaning of Equipment- Mineral spirits /paint thinner

Drying Time- Touch dry after 3-4 hours, recoatable after 24 hours, at 68°F (20°C) and 65% relative humidity. At temperatures below 50°F (10°C) or conditions of high humidity, the drying time will be extended.

During application, moisture content of wood substrate should not exceed 18%. Do not apply when wet weather conditions or frost/dew are forecasted within 5 hours of application.

Color Range and Packaging

996 Natural Light	045 Mahogany
078 Natural	072 Butternut
005 Natural Oak	009 Dark Oak
007 Cedar	020 Ebony
085 Teak	

U.S. Quarts 005, 009, 020, 045, 072,
077, 078, 085, 996

U.S Gallons All Colors, except 020

U.S. Five Gallons 005, 072*, 077, 078, 085

* Available in U.S. only

Shelf Life- Approximately 5 years in unopen Container.

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Preparation Procedures for new, weathered, and uncoated wood:

The best method to prepare vertical wood surfaces is to sand with 80-120 grit sandpaper. However, the following preparation may be used as an alternate to sanding. Spray the surface with clean water, wetting the wood. Clean the surface with a solution of 4 ounces of 100% powdered Tri-Sodium Phosphate (TSP) or phosphate-free substitute plus 1 quart of liquid bleach in 3 quarts of water. Apply this solution generously to the wood with a garden pump sprayer. Let the solution sit on the wood for 15-20 minutes. During this period, scrub the surface with a hard bristle brush to help remove mill glaze and /or weathering. Do not let the solution dry on the wood. Keep it wet. Power wash the cleaning solution from the wood with clean water. To prevent damaging the wood, do not exceed 500 psi. The nozzle must be a maximum of 1 foot from the surface for full effectiveness. Let the surface dry for 3 days before application (i.e. the moisture content is below 18%). Weathered gray wood, or wood affected with blue fungi, or rust from nails may be treated, after the TSP solution, by applying a solution of 4 ounces of oxalic acid crystals in a gallon of warm water. This solution should be allowed to sit on the affected area for 15-20 minutes before the final rinse with a power washer. Let dry for 3 days. For application on hardwoods, wipe the surface with acetone immediately prior to application of Cetol 1. Rough-sawn wood, less than 4 weeks old, need only be dry brushed with stiff bristles to remove loose dirt and debris. If debris is still present, follow the cleaning recommendations. Fill all joints, cracks and nail holes with a high quality polyurethane or acrylic caulk/filler prior to applying the coating system.

Standard Application Procedure: Cetol 1 & Cetol 23 Plus System

It is always recommended to perform a 3 coat color and sheen test on a sample of the wood. Stir well before and during use. Intermix batches to ensure color consistency. Do not apply when the surface is hot to the touch, when dew or frost is present, or expected within 5 hours of application, or in wet weather. Do not apply Cetol 1 over previously coated surfaces. After preparation, apply one (1) coat of Cetol 1, and two (2) coats of Cetol 23 plus, assuring thorough dry (minimum 24 hrs) between coats. If possible, back prime with the first coat. During application, saturate all end grains, nail holes, cavities, and cracks in the wood. Brush on a liberal coat, and maintain a wet edge to prevent lap marks. Brush in the direction of the wood grain starting at one end of the board or log and continuing to the other end of the board or log. The first coat of any Cetol system should be applied from the bottom up to avoid drips which may streak on the surface below. Follow with recommended maintenance procedures and schedule.

Outdoor Furniture/Fence Application

It is always recommended to perform a 3 coat color and sheen test on a sample of the wood. Since outdoor furniture and fences are considered to be in a high moisture environment, it is recommended to apply three (3) coats of Cetol 1, allowing a minimum of 24 hours dry time between coats. A maintenance coat of Cetol 1 is recommended every one (1) – two (2) years.

Log Application Procedure:

Kiln-dried or air dried logs:

It is always recommended to perform a 3 coat color and sheen test on a sample of the wood. Generally, the moisture content of these logs is below 18%, however, some logs may have a moisture content higher than 18%. Therefore, it is recommended to apply Sikkens Log Pre-Treatment and then allow a 6 month drying period before applying two (2) coats of Cetol 1 and one (1) coat of Cetol 23 Plus. (Follow preparation procedure before applying first coat of Cetol 1). During application, saturate all end grains, nail holes, cavities, and cracks in the wood. Brush on a liberal coat, and maintain a wet edge to prevent lap marks. Brush in the direction of the wood grain starting at one end of the board or log and continuing to the other end of the board or log. The first coat of any Cetol system should be applied from the bottom up to avoid drips which may streak on the surface below. Follow with recommended maintenance procedures and schedule.



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Green, wet, or treated logs:

It is always recommended to perform a 3 coat color and sheen test on a sample of the wood. These logs have a moisture content greater than 18%. Therefore, it is recommended to apply Sikkens Log Pre-Treatment and allow a six (6) month drying period. Then apply three (3) coats of Cetol 1. Wait two (2) years and apply one (1) coat of Cetol 23 Plus. (Follow the preparation procedure before first coat of Cetol 1). During application, saturate all end grains, nail holes, cavities, and cracks in the wood. Brush on a liberal coat and maintain a wet edge to prevent lap marks. Brush in the direction of the wood grain starting at one end of the board or log and continuing to the other end of the board or log. The first coat of any Cetol system should be applied from the bottom up to avoid drips which may streak on the surface below. Follow with recommended maintenance procedures and schedule.

Cetol 1 application over Borate treatments:

Do not apply any Sikkens Cetol system over a fresh, borate-treated wood surface. Allow the borates to diffuse into the wood cells by allowing a six (6) month exposure time before application of any Cetol system. To prevent borates from leaching out of the exterior surface, we recommend the application of Sikkens Log Pre-Treatment over the borate treatment. Before the application of Sikkens Log Pre-Treatment, allow the borate treatment to dry for three (3) good, sunny days. Just prior to the application of the appropriate Cetol system, the log surface must be cleaned thoroughly according to the Sikkens preparation procedures. When borate treatments are applied, it is always advised to follow the manufacturer's recommendations.

Maintenance Procedures and Schedule:

Proper maintenance starts with visual inspection. A timeframe of 2-3 years on the south and west exposures, and 3-4 years on the north and east exposures can be used as a general guideline. However, as weathering, exposure conditions, altitude, and applications can vary, maintenance may be needed sooner and should be performed when visually necessary, regardless of timeframe. Before application of a maintenance coat, prepare the surface using the previously mentioned TSP solution, but reduce the solution to 2 ounces of 100% powdered Tri-Sodium Phosphate or phosphate-free substitute. Let the surface dry for 3 days after power washing. Apply 1 coat of Cetol 23 Plus.

Health and Safety Data

Warnings: ***DANGER! RAGS, STEEL WOOL, BRUSHES, ROLLERS AND ANY WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISPOSED OR STORED.*** To avoid a spontaneous combustion fire, immediately, after each use, place rags, steel wool, brushes, rollers or waste in a sealed, water-filled metal container. Keep away from combustible materials. For disposal guidance, contact your local household refuse collection service, fire department, or local government environmental control agency. Harmful or fatal if swallowed. Keep out of reach of children. Keep away from open flame or sparks. Use only with adequate ventilation.



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First Aid treatment:

Refer to the Material Safety Data Sheet found on our website (www.nam.sikkens.com) , or by calling sales support at 1-866-SIKKENS (745-5367).

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