



PRODUCT DATA SHEET

EVO® Eclipse Clear Topcoat

DESCRIPTION

ECLIPSE Clear is a premium, technologically advanced waterborne topcoat for interior woodwork. Eclipse dries quickly, has great clarity, and is more user friendly than most low VOC solvent coatings. It exhibits excellent durability as a single pack product, and ECLIPSE's dual cross-linking technology gives the finisher the ability to further increase durability and chemical resistance by adding an optional hardener. Uses: Kitchen and bathroom cabinetry, architectural millwork, furniture, and shutters. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
ECL-0090 Gloss ECL-0060 Semi-Gloss ECL-0030 Satin ECL-0020 Dull ECL-0010 Flat ECL-0005 Dead Flat	<p>Viscosity: 50-60 #4 ZAHN Weight Solids: 27.2-33.5% Volume Solids: 23.9-31.1% Weight/Gallon: 8.6 lbs./gal Coverage: 384-497.2 sq. ft. per gallon at one mil dry film thickness.</p> <p>VOC (reg./coating): .8-.1.2 lbs./gl. or 98.4-144.4 g/l VOC (act/material): .26-.35 lbs./gl. or 30.9-42.2 g/l VOC Ratio: 0.15 lbs. VOC/lbs. Solids HAPS Ratio: 0.0 lbs. HAPS/lbs. Solids</p> <p>Dry Times: Air Dry: at 78° F, relative humidity 50% To touch: 10-12 minutes To handle: 15-20 minutes To sand/recoat: 30-40 minutes Stackable: 16-24 hours Force Dry: Flash: 10 minutes Bake: 30 min @ 105° F Cool down: 10 min Stack: 4-6 hours</p> <p>Relative humidity will affect the speed of drying. Ideal conditions are 75° F or warmer at 50% humidity or less. Dry time will be faster at higher temperatures and lower humidity and equally slower at colder temperatures and higher humidity.</p> <p>Dry Film Thickness: Maximum DFT for a complete system must not exceed 5 dry mils.</p> <p>Shelf Life: 18 months @77° F if unopened and stored in a cool dry area. Always rotate stock. Storage: Protect product from freezing.</p> <p><i>Note: These numbers represent actual control values on a smooth, sanded substrate. Spray techniques, texture, and sealing as well as film thickness may give different results on actual work, but they may be used for comparison. To the best of our knowledge, the above technical data is true and accurate at the date of issuance but is subject to change without prior notice.</i></p>	<p>To use as a Bi-Component product (optional): Add EWH5 Hardener @ 5-10% by weight or volume (6-12 oz per gallon) and mix thoroughly. Pot life: 1-2 hours depending on temperature. NOTE: Adding hardener will increase the gloss by approximately 3-5 degrees. Adding hardener will also slow the speed of cure slightly.</p> <p>To add Anti Microbial protection (optional): Add EAM1 @ 2% by weight or volume and mix thoroughly.</p> <p>Max VOC after addition of EWH5 and EAM1 at recommended amounts is <275 gpl.</p> <p>Reduction/Thinning: Reduction is not necessary but may be required for certain types of application, equipment, or if the EWH5 hardener is added. Use water for reduction. Very little water is needed to reduce viscosity, typically no more than 5-10%% by volume.</p> <p>Retarder: To improve flow and leveling or to assist with coalescing at lower temperatures, use SOL-0090 at levels not to exceed 4% by volume (5 oz per gallon). Maximum VOC when adding retarder as specified is < 275 grams per liter.</p> <p>Approved Companion Products ECLSS-0100 Eclipse Sealer ECLXX-0XXX Eclipse Tint Bases ECLWP-1000 Eclipse White Primer ECLBP-2000 Eclipse Black Primer</p>
PRODUCT ADVANTAGES		
<ul style="list-style-type: none"> ➤ EVO® ECLIPSE Dual Cross-Linking Technology ➤ Add Optional Hardener For Maximum Durability ➤ Add Optional Anti-Microbial Protection That Lasts For The Lifespan Of The Coating ➤ Green, Low Odor Finish For Use In Shop Or On Site With No Smell ➤ Fast Dry-Dries Like Solvent Based Coatings ➤ Easier To Apply Than Most Low VOC Solvent Based Coatings, No Bubbles Or Dry Spray. ➤ May Be Brushed And Rolled ➤ Superior Clarity ➤ Tough And Durable Film ➤ Meets KCMA Performance Requirements, When Applied to Manufacturer's Specifications ➤ Passes 21 Days Of Edge Soak ➤ Passes 14 Days ASTM Water Immersion Test D870-92 ➤ Low VOC And HAPs Free ➤ Formaldehyde Free ➤ Phthalate Free ➤ NFPA 255 Class A Rated For Flame Spread Utilizing ASTM E 84 Standard 		

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PRODUCT DATA SHEET ECL-00XX SERIES CONTINUED



Substrate preparation:

New wood: Remove any dirt, grease, glue or other contaminants. Moisture content of wood should be 7-9%. Sand to 150-180 grit. Proper sanding of wood is absolutely critical to achieve the best color development and adhesion of the coating to the substrate.

Old wood/re-finishing: Best practice is to strip old finishes completely and remove all contaminants from the surface. For previously finished surfaces such as old lacquer, good results can be obtained following this procedure-Degrease, clean, and dry surface. Sand with 220-280 grit sandpaper and clean or blow off sanding dust. Apply new finish. Test sample for adhesion and compatibility before proceeding with more expansive work.



Mixing Instructions:

Mix material thoroughly before and during use. Material may be mixed by hand or mechanical agitation at moderate speed. If using hardener add EWH5 @ 5-10% (6-12 oz per gallon) by weight or volume and mix thoroughly. Pot life after adding hardener is 1-2 hours max. Adding the hardener will thicken material slightly and may require reduction with water depending on your spray equipment.

For anti-microbial protection add EAM1 @ 2% by weight or volume (2.5 oz per gallon). Mix or agitate thoroughly before use.



Application:

Using conventional, HVLP, airless, or air assisted equipment, apply this product at 3-4 wet mils per coat. Let dry a minimum of 30-40 minutes. Sand with 280-320 grit, no-fill sandpaper and remove sanding dust with clean compressed air. This product must be sanded in between coats to ensure proper adhesion.

Typically we recommend a coating system comprised of 1 coat of ECLSS-0100 sealer applied at 3-4 wet mils per coat and 1-2 coats ECL-00XX applied at 3-4 wet mils. If used as a self-seal system we recommend 2-3 coats of ECL-00XX applied at 3-4 wet mils per coat. **Maximum dry film thickness of the complete system must not exceed 5 dry mils.**

To brush or roll: This product may be brush or rolled. We have found best results with using a high quality synthetic bristle brush, and a shed resistant ¼ inch nap mini roller. To improve flow and leveling, use SOL-0090 at levels not to exceed 4% by volume (5 oz per gallon).

This product must not be polluted with oil, solvent based paint or the like and should not be applied to metal surfaces. Application and drying conditions must be at temperatures of 60°F or above and at a humidity of less than 75%. Increased air flow and/or drying temperatures, including the use of infrared lighting for cure will significantly decrease dry times.



Recommended Tip Sizes:

Conventional Air	1.8-2.0 mm
HVLP	1.9-2.2 mm
Airless	8-10 thousandths
Air Assisted Airless-	9-11 thousandths



Precautions:

These products are intended for Professional use only. Do not proceed if you are planning on mixing with other finishing systems or other manufacturer's products. Gemini will not be held liable for finish failures due to the improper use of our products or deviation from our finishing recommendations

Equipment:

All equipment used with this product must have plastic, stainless steel, or Teflon fluid passages and wetted parts

Containers:

All containers used in conjunction with storage and/or application of this product should be stainless steel or plastic to avoid rust.

Clean up:

Use water to clean all equipment when material is in a liquid stage. Use 2:1 mixture of water and Butyl Cellosolve (SOL-0061) to remove semi-dried or dried coating. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Care and cleaning of this finish: Use a mild dishwashing liquid and a damp cloth to remove food, grease, and other residue. Wipe dry. Do not use cleaners that contain ammonia, bleach, or abrasives as this may damage the finish.