



PRODUCT DATA SHEET

EVO® Eclipse Sealer

DESCRIPTION

ECLIPSE clear sealer is a premium, technologically advanced waterborne sanding sealer for interior woodwork. Eclipse sealer dries quick and is extremely easy to sand. 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 the 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
ECLSS-0100	<p>Viscosity: 25-35 #4 ZAHN Weight Solids: 33.7% Volume Solids: 30.7 Weight/Gallon: 8.68 lbs./gal Coverage: 503.4 sq. ft. per gallon at one mil dry film thickness.</p> <p>VOC (reg./coating): 0.99 lbs./gl. or 118.2 g/l VOC (act/material): 0.35 lbs./gl. or 41.6 g/l VOC Ratio: 0.12 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: 9-11 minutes To handle: 15-20 minutes To sand/recoat: 25-35 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: To optimize performance, the ideal DFT for this sealer should be between .7 -1.5 mils. Please refer to the PDS for the specific topcoat you are using for maximum allowable DFT for the complete system.</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>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. Max VOC after addition of EWH5 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 ECL-00XX Eclipse Series Topcoats</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>
PRODUCT ADVANTAGES		
<ul style="list-style-type: none"> ➤ EVO® ECLIPSE Dual Cross-Linking Technology ➤ Add Optional Hardener For Maximum Durability ➤ 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. ➤ Superior Sanding Properties ➤ May Be Brushed And Rolled ➤ Meets KCMA Performance Requirements, When Applied to Manufacturer's Specifications With An Approved Topcoat ➤ Extremely Low VOC ➤ 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 ECLSS-0100 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.



Application:

Using conventional, HVLP, airless, or air assisted equipment, apply this product at 3-4 wet mils per coat. Let dry a minimum of 25-35 minutes. Sand with 240-280 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 applied at 3-4 mils wet film build and 1-2 coats of an approved companion topcoat. Please refer to the Approved Companion Products section of this document for approved topcoats. **Please refer to the Product Data Sheet for the topcoat you are using for maximum dry film thickness recommendations.**

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 must be stainless steel, plastic, or otherwise lined.

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 coating. Use Acetone to remove 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.