

PRODUCT CODES: ELBDG

NAME: EnviroStain - Binder for Glaze

DESCRIPTION: ELBDG is a binder in our EnviroStain system. All of the EnviroStain Binders are concentrates that are intended to be mixed with water prior to use. This binder is the primary resin for making glazes, either dry or wet.

ELBDG has a fast dry time and is used in combination with ELBRC to create glazed/patina finishes. Dry glaze is sprayed on, dried and then scuffed off to leave brush lines or highlights in open grain or profiles in the panel. Wet Glaze is sprayed or wiped on and then wiped or brushed off while wet to achieve similar colour highlights.

Aside from being the main binder for glaze, this binder can also be used in the EnviroStain Wiping and Spray Stains to increase uniformity. Please see our product preparation guide below for recommended starting formulations.

USES: This product is designed for interior wood finishing applications such as cabinetry, tables, furniture and millwork. The dry glaze (Binder + Water + Tints) is intended to be sprayed on and scuffed off, wet glaze can be sprayed on or wiped on/off with a brush or rag.

SANDING: Glazes are not applied directly to wood, they are intended to be applied over a sealer or topcoat as a highlight for profile or grain enhancement.

Dry Glaze: Apply a light coat of tinted dry glaze to your sealer or topcoat, dry and scuff off using Scotch Brite, sanding sponges or sandpaper, leaving colour in the profile. DO NOT leave heavy dark lines using dry glaze, the adhesion of the system will be compromised wherever the glaze is heavy. For dark lines or pinstriping a wet glaze is better suited.

Wet Glaze: Sanding or scuffing the sealer or topcoat prior to using wet glaze will give stronger colour pickup and can show sanding scratches, sand evenly and thoroughly if sanding prior to applying wet glaze. If using wet glaze without sanding it is imperative to check adhesion of the final system between sealer, glaze and topcoat.

PRODUCT PREPARATION: Start with 40% ELBDG Dry Glaze Binder, add up to 10% ELTINT Micronized Pigment, add water to bring the total mix balance to 100%. To improve the adhesion of the glaze/patina to the base coat add ELBRC Binder for glaze adhesion. The more ELBRC you add, the tougher it will be to remove, but the better the glaze will adhere to the underlying finish. If you intend to leave heavy glaze lines, use more ELBRC (5-10%). Dyes are not recommended as they will absorb into the finish.

**RECOMMENDED
STARTING
FORMULAS:**

DRY GLAZE:

Product	% by weight
Water	45
ELBDG	40
ELBRC (adhesion)	5
ELTINT	10*

*if you use less than this %, make up the difference with water

WET GLAZE:

Product	% by weight
Water	65
ELBDG	20
ELBRC (adhesion)	5
ELTINT	10*

*if you use less than this %, make up the difference with water

**RECOMMENDED
APPLICATION:
DRY GLAZE**

Dry Glaze (or patina) is used to highlight an existing stain or solid colour panel by creating brush lines, colouring the open grain or profiled areas. Dry glaze is applied via spray; cup gun or HVLP are common, but larger production runs could use airless or air-assisted airless sprayers. Apply a medium coat, allow it to dry (30-60 minutes depending on ambient conditions) and then remove by sanding or more commonly using Scotch Brite pads to leave some glaze behind.

Wet Film Build:	3-5 mils
Grams per 1/10 sq. metre: (250x400mm board)	9-15 grams
Number of Coats:	1 (single or double pass)
Maximum Dry Film Build:	NA
Coating Temperature at Application:	18°C (65°F) or higher

**RECOMMENDED
APPLICATION:
WET GLAZE**

Wet glaze can be applied by spray, brush or hand-wiping with a rag. The excess is then immediately wiped or brushed off to give the desired effect.

Wet Film Build:	2-4 mils
Grams per 1/10 sq. metre: (250x400mm board)	7-12 grams
Number of Coats:	1
Maximum Dry Film Build:	NA
Coating Temperature at Application:	18°C (65°F) or higher

**PHYSICAL
PROPERTIES:
(of the ELBDG)**

Specific Gravity:	1.02
Viscosity:	800-1000cps
Solids Content:	8.00%
Pot Life:	NA
Flash Point:	>100°C
VOC's:	0.35g/L
VOC's (minus exempt):	0.58g/L

DRYING TIMES:

Air dry: (20°C/68°F)	Dry Glaze	
	Ready to Sand/Scuff:	30-60 minutes
	Wet Glaze	
	Ready to Topcoat:	2 hours
	Note: Gentle air movement (recirculator or fan) while parts are drying will reduce dry to sand times by 20%	
Conventional Oven: (40-45°C/104-113°F)	Dry Glaze	
	Ready to Sand/Scuff:	15-30 minutes
	Wet Glaze	
	Ready to Topcoat:	1 hour
Sun-Spot IR Cure:	Flash off	1-8 Minutes
	Direct Cure	5-8 Minutes @60-70°C(140-160°F)
	Rack Cure (Indirect no probe mode)	8-15 Minutes @10%+ power
	Cool	10-20 minutes

TYPICAL SYSTEMS:

Dry Glaze Over Stain:

Stain, wiping or spray stain based on ELBWS, ELSWB104, ELBSS or ELSSB100
Clear sealer or self-seal topcoat (Seal300/500 or 100/300/500/550 series topcoat)
ELBDG Dry Glaze
Dry and scuff with Scotch-Brite, removing excess glaze
Topcoat with compatible finish (same as above)

Wet Glaze Over Stain:

Stain, wiping or spray stain based on ELBWS, ELSWB104, ELBSS or ELSSB100
Clear sealer or self-seal topcoat (Seal300/500 or 100/300/500/550 series topcoat)
ELBDG Wet Glaze
Brush or rag, removing excess glaze
Topcoat with compatible finish (same as above)

Dry Glaze Over White:

White Primer (PR160-TB/PR170/PR170-TB/PRT9000)
White Topcoat (200/400/800 series over PR160-TB/PR170/PR170-TB)
or
White Topcoat (400/800 series over PRT9000)
ELBDG Dry Glaze
Dry and scuff with Scotch-Brite, removing excess glaze
Clear Topcoat (300 or 500 series to maintain colour)

Wet Glaze Over White:

White Primer (PR160-TB/PR170/PR170-TB/PRT9000)
White Topcoat (200/400/800 series over PR160-TB/PR170/PR170-TB)
or
White Topcoat (400/800 series over PRT9000)
ELBDG Wet Glaze
Brush or rag, removing excess glaze
Clear Topcoat (300 or 500 series to maintain colour)

SUITABLE TINTS: ELBDG, once reduced, is designed to be tinted with the ELTINT line of micronized pigments. ELDYE products are not recommended as they will absorb into the first finish layer and discolor the panel in an unpredictable way.

TINTING INSTRUCTIONS:

Stain System	Maximum Tint Load
Dry or Wet Glaze	10%

To ensure colour consistency, pigmented products must be mixed prior to use and should be under low agitation if being used in production for a prolonged period.

GENERAL INFORMATION:

Use stainless steel (304/316) equipment for all water based products. When switching between solvent and water based products in the same spray equipment we suggest the following:

From Solvent to Water: Wash with acetone, then wash with water.

From Water to Solvent: Wash with water, then wash with acetone.

Keep containers closed when not in use and keep from freezing.

These products are designed for industrial use only. Please refer to the Safety Data Sheet prior to use.

SHELF LIFE: 12 months in unopened containers

STORAGE: Store in a tightly closed container at room temperature (18-25°C/64-75°F) and protect from direct sunlight and foreign material. Do not store at temperatures below 5°C/41°F.

Disclaimer: Every reasonable precaution is taken by the manufacturer in the manufacture of our products to ensure that they comply with our standards. The information given herein is correct to the best of our knowledge. Any suggestions made by us covering the use of our products are based on experience and/or tests believed to be reliable. However, because the use of any product of our manufacture is completely beyond our control, including for example, the method and conditions of application, no guarantee or warranty, expressed or implied, is made. Manufacturer's maximum liability shall be to replace such quantity of product determined by our laboratory to be defective. User shall determine the suitability of the product for his intended use and assumes all risk and liability in connection therewith.