Envirolak

Technical Data Sheet
ELBWS
Revision Date: 12/19/23

PRODUCT CODES: **ELBWS**

NAME: **EnviroStain - Binder for Wiping Stain**

DESCRIPTION: ELBWS 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 wiping stains.
ELBWS has a very slow dry time to allow for wiping on large pieces as well as minimizing lap lines during the wiping process. It offers good uniformity of colour when used with the ELTINT series of micronized pigments and has minimal grain raising. The addition of ELBSS will provide more contast and pore marking. 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 finished stain (Binder + Water + Tints/Dyes) can be sprayed or wiped on and then wiped off prior to finishing.

SANDING: Substrate should be sanded with 180 grit sandpaper prior to applying any stains. Finer grit sandpaper (240/280) can be used to minimize sanding scratches or swirls.

PRODUCT PREPARATION: Start with 20% ELBWS Binder and add up to 10% ELBSS Binder for addditional pore marking and contrast or up to 10% of ELBDG Binder to improve stain uniformity. Add up to 15% ELTINT Micronized Pigment, up to 5% ELDYE Dye Concentrate can be added if desired to increase vibrancy. Add water to bring the total mix balance to 100%.

GENERAL FORMULA:
(min/max levels)

Product	% by weight
Water	50-80
ELBWS (required)	20-30
ELBSS (optional - accentuates grain)	0-10
ELBDG (optional - more uniform)	0-10
ELTINT	0-15*
ELDYE	0-5*

RECOMMENDED STARTING FORMULAS:

Substrates: Maple, Walnut, Beech, Birch

Product	% by weight
Water	60
ELBWS	20
ELBSS	5
ELTINT	15*

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

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RECOMMENDED STARTING FORMULAS:

Substrates: Oak, Ash, Acacia

Product	% by weight
Water	55
ELBWS	20
ELBSS	10
ELTINT	15*

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

Substrates: Pine, Fir, Poplar

Product	% by weight
Water	65
ELBWS	20
ELBSS	-
ELTINT	15*

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

RECOMMENDED APPLICATION:

Application is spray on wipe off or wipe on wipe off, either cup gun, HVLP turbine, pressure pot or air-assisted airless spray. Apply a wet coat in a single or double pass, covering the entire area to be stained. Remove excess stain with a clean, lint-free rag, giving a final wipe in the direction of the wood grain.

Wet Film Build:	2-5 mils
Grams per 1/10 sq. metre: (250x400mm board)	7-15 grams
Number of Coats:	1
Maximum Dry Film Build:	NA
Coating Temperature at Application:	18°C (65°F) or higher

After application this product needs to be wiped off using a clean, dry rag or sponge to ensure adhesion and correct colour appearance.

If the stain is left on too long and begins to dry, wiping off with a dry rag can result in lap lines. To minimize lap lines re-wet the area with more stain on a partially wet rag and wipe off using the same rag.

PHYSICAL PROPERTIES:
(of the ELBWS)

Specific Gravity:	1.02
Viscosity:	ISO cup 6, 18-22 seconds
Solids Content:	2.75%
Pot Life:	NA
Flash Point:	>100°C
VOC's:	310 g/L
VOC's (minus exempt):	745 g/L

As a low solids product, these VOC values are California Air Resource Board (CARB) compliant.

DRYING TIMES:

Air dry:	Dry to Touch:	5-10 Minutes
(20°C/68°F)	Ready to Seal:	20-60 Minutes

Note: Gentle air movement (recirculator or fan) while parts are drying will reduce dry to sand times by 20-40%

Conventional Oven:	Dry to Touch:	5 Minutes
(40-45°C/104-113°F)	Ready to Seal:	15-25 Minutes

TYPICAL SYSTEMS: Apply stain to sanded wood substrate and coat with clear sealers or self seal using topcoat. Recommended products include ELSEAL300, ELSEAL500, 100 series, 300 series, 500 series or 550 series.

SUITABLE TINTS: ELBWS, once reduced, is designed to be tinted with the ELTINT line of micronized pigments. It is also compatible with the ELDYE concentrates, although usage levels of

TINTING INSTRUCTIONS:

Stain System	Maximum Tint/Dye Loading
Wiping Stain	15% tint/5% dye

Note that when using pigments and dyes together in the same colour the storage stability of the colour will be reduced depending on the concentrations used.
To ensure colour consistency, stains must be shaken/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

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.