

# Envirolak

Technical Data Sheet

ELSSB100

Revision Date: 11/8/23

**NAME:**  
**WATER BASED SPRAY STAIN**

**DESCRIPTION:**

ELSSB100 is a water based spray stain that provides even tones in an easy to apply format over a variety of wood substrates. ELSSB100 offers minimum grain raising in a VOC friendly environment. This spray stain is well suited to fast paced production environments where colour reproducibility is key.

**USES:**

This product is designed for interior wood finishing applications such as cabinetry, tables, furniture and millwork.

**SANDING:**

Substrate should be sanded with 180 grit sandpaper prior to applying any stains.

Depending on the type of wood substrate you are using it may be recommended to sand even finer than 180 grit. The finer grades of sandpaper will allow for a more uniform, less blotchy finish although the colour of the stain will also be slightly lighter. Please consult your Performance Finishing Solutions technical sales representative for raw wood sanding advice when using waterborne stains.

**PRODUCT PREPARATION:**

This product should be used as supplied and tinted with the 896- water based pigment line or with the Envirolak line of dyes.

**RECOMMENDED APPLICATION:**

**Spray type:** Air Assist Airless

**Fluid Pressure:** 300-600 PSI

**Air Pressure:** 15-25 PSI

**Tips:** 04, 06 or 09

**Wet Film Build:** 3-4 mils

**Number of Coats:** 1

**Drying Times:** See Below

This product can also readily be applied by Cup Gun.

## **PHYSICAL PROPERTIES:**

**(of the ELBRC)**

**Specific Gravity:** 1.000 ±2%

**Viscosity:** NA (water thin)

**Solids Content:** <1% by wt.

**Pot Life:** None

**Flash Point:** >65°C

**VOC's:** <15g/L, 0.1 lb/gal

Note: VOC's will vary depending on pigmentation levels.

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## **DRYING TIMES:**

**Air dry:**

(20°C/68°F)

**Dry to Touch:** 5-10 Minutes

**Ready to Seal:** 30-60 Minutes

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

## **Conventional Oven:**

(40-45°C/104-113°F)

**Dry to Touch:** 5 Minutes

**Ready to Seal:** 15-25 Minutes

## **TYPICAL SYSTEMS:**

Apply stain to sanded wood substrate and coat with 100, 300, 500 or 550 series clear sealer and topcoats.

## **SUITABLE TINTS:**

ELSSB100 can be pigmented with the 896- Line of waterborne tinters. In addition, water soluble dyes can also be used for more vivid colours. Both pigments and dyes are available from your Envirolak supplier.

## TINTING INSTRUCTIONS:

Stain System	Maximum Tint/Dye Loading
Spray Stain - ELSSB100	10%/5%
Shader	10%/5%

Note that when using pigments and dyes together in the same colour the overall stability of the colour will be reduced depending on the concentrations used.

To ensure colour consistency, pigmented stains 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 wash all equipment well. 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.

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.