



SYSTEMTHREE RESINS, INC.  
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## TECHNICAL DATA

### WR-LPU Linear Polyurethane Topcoat

**DESCRIPTION:** System Three® WR-LPU™ is a two-part, water-borne, VOC-compliant, linear polyester polyurethane enamel. It will provide appearance and performance equal to its solvent-borne counterparts. WR-LPU topcoat comes in clear gloss, clear satin, and 12 popular colors. WR-LPU is extremely weatherable and abrasion-resistant, and will retain its appearance for long periods in a variety of environments. For use over System Three® WR-155 Primer or properly prepared System Three® Resin surfaces.

#### PHYSICAL PROPERTIES:

**FINISH:** High Gloss (Clear)  
Semi-gloss (Colors)

**COLORS:** 12 standard colors (color cards available on request)

#### WEIGHT SOLIDS:

**COLORS:** 37%  
**CLEAR:** 32%

**VOC:** 105-125 grams/liter (depending on color)

**APPLICATION TEMPERATURE:** 55-90° F

**MIXING RATIO:** 2oz. crosslinker per gallon of paint base.  
(~8 drops/fl. oz. for small batches)

**THINNING:** Deionized or distilled water.  
Thin as needed up to 25%.

**POT LIFE:** 8 hours @ 70°F.

**RECOAT TIME:** 2 hours minimum  
24 hours maximum  
(Sanding is required after that.)

**DRYING TIME**(5 mils wet @ 70°F, 50% RH): 60 minutes

**OPTIMUM DRY FILM THICKNESS:** 2.5-3 mils

**CLEAN UP:** Clean water for uncured paint. If paint has dried, paint stripper will be needed to remove it.

**SHELF LIFE:** 12 months @ 70°F in original container

**RECOMMENDED SPREAD RATE:** 350-400ft<sup>2</sup>/gallon.

#### SURFACE PREPARATION:

**WOOD, STEEL, OR COMPOSITE:** Prime with WR-155 epoxy primer according to product instructions. Sand primed surfaces with 150 to 220-grit wet-or-dry sandpaper, and wipe with water or denatured alcohol. Do not use tack rags which can leave a waxy residue. Surface must be clean, dry, and free of dust, oil, grease or other contaminants prior to application.

**SYSTEM THREE® EPOXY:** WR-LPU may be applied directly over System Three laminating or coating resins. Sand surfaces with 80, then 120, then 150 to 220-grit wet-or-dry sandpaper, and wipe with water or denatured alcohol.

Allow resin to cure at least 7 days at 70°F or above. Sand surface to a uniform dull finish with 120 then 150 or 220-grit wet-or-dry sandpaper.

#### NOTES:

The Application Guide contains more detailed instructions.

Refer to the product MSDS for complete safety and handling instructions.

Dilute crosslinker with thinning water prior to addition to paint base.

Not meant for use below the waterline on constantly-immersed boats.

WR-LPU will dry without the crosslinker added, but will not have desirable chemical resistance and weatherability without it.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.

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