



System Three Resins, Inc.
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TECHNICAL DATA SHEET

S-1 Clear Penetrating Epoxy Sealer

DESCRIPTION: S-1 Sealer is a marine two-part clear penetrating epoxy sealer. It's a superb waterproof sealer/primer for wood, metal, and reinforced polyester. An added plus is the easy 1:1 mix ratio and an extended 24-hour pot life. S-1 is ready to use with no thinning required. It displays excellent wetting properties on most surfaces. S-1 can be applied with a brush, roller or spray equipment. It's completely waterproof and suitable for use above or below the waterline.

FEATURES:

- Excellent adhesion to most substrates
- Remains flexible in cold temperatures
- No sanding required between coats within 12-24 hours
- Resistant to salt air and water, and mild acids, alkalis, chemicals and solvents (not unleaded gasoline-proof)

PRODUCT CHARACTERISTICS:

Mix Ratio by Volume (Resin:Hardener): 1:1

Mix Ratio by Weight (Resin:Hardener): 100:94

Viscosity (Mixed): 42cps @ 25°C

Application Temperature Range: 60°F-90°F (15°C-32°C)

Max Service Temperature: -4°F-160°F (-20°C-72°C)

Working Time @70°F (21°C): 5-8 min wet edge time

Recoat Time w/o Sanding @ 70°F (21°C): 12-24 hours

Full Cure: 7 Days

Pot Life: 24 hours

Solids: 50% by volume

Density: 7.9 pounds/gallon

V.O.C. Content: 650 grams/liter

Coverage: 300-350 ft² per gallon

CLEAN UP: Use lacquer thinner or denatured alcohol.

SURFACE PREPARATION: Surfaces should be free of dust, grease, oil, wax, and other foreign matter. Sand with 100-150 grit sandpaper. Use clean compressed shop air, vacuum, or a brush to remove dust and loose debris.

APPLICATION: S-1 Sealer can be recoated without sanding within 12-24 hours. When S-1 has cured beyond 24 hours, sanding is necessary. Sand the epoxy with 180-220 grit sandpaper. Wear a NIOSH approved respirator and protective gloves when applying S-1.

WOOD: If you plan on staining, oil based wiping stains work best. Allow the stain to fully dry before coating with S-1. If you're applying S-1 in an interior environment, 2-3 coats are sufficient for most projects. Exterior environments need greater coverage to prevent moisture penetration. 4-6 coats of S-1 are necessary for these conditions. Exterior projects also need 2-3 coats of a quality UV protective topcoat such as System Three Marine Spar Varnish or a paint.

Note: When staining, avoid overworking the first coat of S-1. Overworking the finish can cause blotchiness on dark or heavy pigmented stains.

METAL: Metal surfaces should be clean, bright and solvent wiped before coating with S-1. If you're applying S-1 in an interior environment, 2-3 are sufficient for most projects. Exterior environments need greater coverage to prevent corrosion. 4-6 coats of S-1 are necessary for these conditions. Exterior projects also need a quality UV protective topcoat such as System Three Marine Spar Varnish or a good exterior paint. Apply 2-3 coats of a quality UV topcoat.

REINFORCED POLYESTER: The polyester should be clean, dry and thoroughly sanded with 60-80 grit sandpaper. Above the waterline scenarios require 2-3 coats of epoxy, followed by a UV protective paint or clear coat. Below the waterline applications require 4-6 coats of S-1 for barrier coat resistance.

For complete safety and handling information see the SDS for S-1 Sealer on our website at www.systemthree.com.

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