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TECHNICAL DATA SHEET

S-1 Clear Penetrating Epoxy Sealer

DESCRIPTION:

System Three S-1 Epoxy Sealer is a 50% solids epoxy/polyamide system. Mixed at a simple 1:1 ratio, S-1 is extremely effective at prolonging the service life of all woods, concrete, metals and fiberglass reinforced polyester. S-1 is ready to use with no thinning required. It is completely waterproof suitable for use above or below the waterline. S-1 is a superb undercoat primer for most paints and clear finishes featuring strong adhesion to most substrates with minimal surface preparation. S-1 does not require sanding between coats if recoat time is less than 24 hours. It is resistant to salt air, mild acids, alkalis, chemicals and solvents. S-1 is not recommended for gas tanks containing unleaded gasoline.

PRODUCT USES:

For Wood: S-1 seals effectively against moisture and oxygen, helping to protect against wood rot. It is ideal for yacht interiors, shelving, cabinets and furniture.

For Concrete: S-1 is an excellent moisture barrier for walls and floors. It works well as a dustproofer for floors

For Metals: S-1 helps to prevent oxidation and chemical exposure effects including staining and tarnish.

For FRP (fiberglass): Coat polyester laminates with S-1 to provide complete moisture resistance that the fiberglass by itself cannot provide. Use as a first sealer step in gelcoat blister repair, after the blisters have been ground out.

PHYSICAL PROPERTIES:

VISCOSITY (MIXED): 100cps

SOLIDS: 50% by volume

DENSITY: 7.9 pounds/gallon

V.O.C. Content: 550 grams/liter (4.6 lb/gal)

COVERAGE: 300-350 ft² per gallon

DRY TIME: tack free: 4-6 hours @ 25°C

RECOAT(WITHOUT SANDING): up to 24 hours

DRY HARD: 24-48 hours

Dry times will vary with temperature, humidity, and ventilation.

THINNING: None required on subsequent coats or over sanded varnish.

CLEAN UP: Epoxy reducer or lacquer thinner

SURFACE PREPARATION: Surfaces should be free of dust, grease, oil, wax, and any other foreign matter. Sand with 100-150 grit open coat sandpaper. Use of non-clogging sandpaper is not recommended because of the possibility of leaving a residue. Use a tack rag to completely remove dust prior to application of S-1.

APPLICATION: S-1 can be applied by brush, roller, or spray. For best results, apply S-1 between 50-95°F.

OVER CURED EPOXY RESIN: Sand epoxy substrate with 220 or 320 sandpaper to remove as much of the gloss as practical. Ensure surface is clean and dry and apply. Resin surface may require up to 2 weeks prior to coating for all residual curing agent to be out of the surface.

NEW WORK(BARE WOOD): Apply a minimum of three coats for protection. Recoat when surface shows signs of wear.

OLD WORK: If previously varnished surface is in good condition, sand and varnish. If old finish is not in good condition, remove and proceed as with new work.

NOTES: Add System Three Paste Pigments up to 10% of the Part A Resin to make colored S-1 Sealer. S-1 is flammable and can be shipped by ground only.

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

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