



System Three Resins, Inc.
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TECHNICAL DATA SHEET

Silvertip®
EPOXY LAMINATING
RESIN SYSTEM

DESCRIPTION:

Silvertip epoxy laminating resin is the liquid resin/hardener member of System Three Resins' SilverTip Series. It has been formulated as a system for coating and fiberglassing wooden boats and for the repair of fiberglass parts. Both the resin and hardener are essentially colorless and cures to a blush-free film. The working time to cure time ratio is better than most boatbuilding epoxy resin systems. The cured film is tough and resilient with better heat resistance than other ambient temperature cured epoxies. SilverTip epoxy is designed as a coating and fiberglassing resin rather than as an adhesive or fairing putty base. For these applications use other SilverTip Series members: GelMagic for bonding wood, fiberglass and other porous materials, EZ-Fillet as a wood flour filleting putty, QuikFair for fairing, and MetWeld for bonding metals and other non-porous materials. Silvertip epoxy has not been evaluated for use with any of the common epoxy fillers and modifiers.

PHYSICAL PROPERTIES:

Viscosity @ 25°C(77° F) cps
 Density (lb. per gallon)
 Color

Resin	Fast Hardener	Slow Hardener
700	525	620
9.47	8.02	8.02
Colorless	Pale Yellow	Pale Yellow
Mix ratio by volume resin/hardener	50	50
Mix ratio by weight resin/hardener	43	43
Viscosity resin/hardener (cps)	650	675
Gel time @ 25° C (100 gram mass)	26 min.	60 min.
Tack-free time @ 25° C	3 hours	6 hours
Minimum recommended application temperature	35°F(2°C)	55°F(13°C)

MIXED SYSTEM PROPERTIES:

Maximum Service Temperature 160°F

TYPICAL CURED PROPERTIES:

Tensile Strength, psi (ASTM D638)	7,900
Tensile Elongation (ASTM D638).....	8.0%
Tensile Modulus, psi(ASTM D638)	390,000
Flexural Strength, psi(ASTM D790)	13,000
Flexural Modulus, psi(ASTM D790)	420,000
Heat Deflection Temperature, ° F	128
CompressiveStrength, psi(ASTM D695): at yield	13,000
at failure	26,000

Sizes available: Resin is packaged in containers from one U.S. quart(32 oz.) to 5-gallon pails.
 Hardeners are packaged in containers from one U.S. pint (16 oz.) to 5-gallon pails.

For health and safety information concerning this product, please refer to the MSDS sheets for System Three Silvertip Laminating Resin and Hardeners. MSDS sheets are available on our website at www.systemthree.com, or by calling or writing System Three Technical Support.

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