



A Quality Product from Hawkeye Industries Inc.

StyroSafe® Fast-Cure Laminating Resin

A pre-accelerated, orthophthalic, unsaturated polyester resin, diluted in styrene and methacrylic monomer with medium reactivity and medium viscosity.

**StyroSafe Fast-Cure
Laminating Resin
Product No. 30P-106A**

Usage

For laminating directly on polystyrene low-density foam without an intermediate barrier. StyroSafe is formulated for applications where adhesion to an expanded polystyrene is required. These applications could include surf and wind boards; CNC-shaping of patterns and models; lamination of hot-wire cut foam; decorative foam for building facades; floating docks; and thermal insulation barriers.

Storage Stability

The product is stable for six months if stored in a stainless steel tank or lined drums (avoid glass fiber-based containers or tin-plated drums), at 20° C temperature, in a dark/ventilated place. Keep away from iron and copper salts, organic and inorganic peroxides.

Product Safety

The product is flammable and harmful. Further information is provided in the safety data sheet (MSDS).

APPLICATION INFORMATION

Although StyroSafe Fast-Cure Laminating Resin #30P-106 is compatible with low density polystyrene foam, there are some precautions to follow when using the product:

- Do not leave a "puddle" of resin on the foam after laminating onto the surface as some chemical attack can occur due to excess exotherm development. *Continued on Page 2*



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Pg. 2

Application information cont'd

- After the first, or "skin coat," laminate has been applied, wait until it exotherms and cools before following with the next laminates. Too much exothermic heat will melt the foam.
- Catalyze at 1.5% Syrgis Norox 925.
- Apply at least two laminates made with StyroSafe resin before switching to a GP resin system as the two laminates will insure that there will be no chemical attack of the foam.

Note—Based on Industry Information about Expanded Polystyrene Foam we do not recommend that the foam be subject to vacuum or temperatures above 160° F.

PRODUCT CHARACTERISTICS

Type

Unsaturated polyester resin specifically formulated for lamination directly to polystyrene foam. Low Hap.

Viscosity

Run on Brookfield model LVF
@ 77°F at 30 RPM, Spindle #2 780-860 cps.

Gel Time

Run @ 77° 2% Cadox L-50 7-18 minutes

Solids 65-67%

Weight per Gallon 9.33 lbs./gal.

MECHANICAL/PHYSICAL PROPERTIES

(.125 inch laminate, all post-cured)

ASTM C297-94	Standard test method for flatwise tensile strength of sandwich construction. *Failure mode was 100% in foam layer.	
	MAX Load (lbf)	580
	Flatwise Tensile Strength (psi)	37
ASTM D638	Tensile Strength (psi)	9475
	Tensile Modulus (ksi)	527
	Elongation (%)	2.5
ASTM D648	HDT (°C) @ 264 (psi)	65°C (149°F)
ASTM D790	Flexural Strength (psi)	18,830
	Flexural Modulus (ksi)	493

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