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PRODUCT DATA SHEET Fiberglass Replacement System

Product Description:

The Fiberglass Replacement System (FRS) is a structural spray-up laminate technology using highmodulus materials with option to cavity-backfill using lightweight Class A fire resistant foam such as in the application of Spas, Commercial Holding Tanks, Bathtubs, Marine Components, etc. The system provides stiffness, puncture and abrasion resistance, chemical resistance and thermal insulation. Laminate spray-up thickness can vary based on design and mechanical load requirements (Nominal Min. 1" up to 3"+ if required).



The high-strength FRS spray-up system is designed for fast part manufacturing production. Each fast-set spray material is 2-component and applied using high pressure plural component heated machines such as a Graco EXP2 with spray gun. The materials are sprayed onto standard mold surfaces, such as fiberglass, HT epoxy composites and metal. Material(s) thickness build(s) to desired levels are immediate fast-set during the hot spray-up process. Materials are available in drum sets and totes. Shelf-life of materials are 1 year from date of manufacture. Protect from freezing. Recommended storage temperature is 60°F to 80°F (15°C to 25°C). Keep in tightly covered container. Consult Safety Data Sheet (SDS) for material handling.

Composite Laminate Property Values

Laminate Property	Value	Test Method
Laminate Stiffness	0.8-1.1 E6 psi @1"*	ASTM D3846
Flexural Strength	31,000 psi, 221 Mpa*	ASTM D790
Impact Resistance	12 ft-lb/in, 643 J/m*	ASTM D256
Abrasion Resistance	50 mg loss /1000 cycles	ASTM D4060 (CS-17)
SC PolyFilm Chemical Resistance	See chart	
Thermal Resistance	R Value 6.1	ASTM D2844
Water Absorption	<0.3 %	ASTM D570

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