

SYNFOAM[®] SV-44 Microsphere Based Syntactic Void Filler Kit

Product Description:

SynFoam SV-44 is a high performance syntactic foam designed for use in subsea void filler applications. SV-44 is provided as three components which are easily mixed together and then cast to their final density. Component A is a high performance, low viscosity epoxy that has been formulated for high compressive strength and to provide excellent processing characteristics. Component B is a low viscosity polyamide hardener which can be cured over a wide temperature range while possessing a low exotherm. Component C is made of free flowing hollow glass microspheres that provide the low density and hydrostatic properties of the final syntactic foam.

Product Benefits:

- Underwater buoyancy to 3,500 meters
- Low density
- Room temperature curing
- Excellent mechanical properties
- Toughness and impact resistance
- Excellent molded finish
- UV resistance
- Water resistance
- Oil, fuel, and grease resistance
- Solvent resistance
- Dimensionally stable
- Easy of processing

Typical Properties:

Property	Test Method	Value
Density	ASTM D1622	44 ± 2 pcf
Color		Off-white
Depth Rating		3,500 m (11,482 ft)
Service Pressure		5,000 psi (345 bar)
Uniaxial Compressive Strength	ASTM D695	6,900 psi (47.6 MPa)
Uniaxial Compressive Modulus	ASTM D695	250,000 psi (1,724 MPa)
Hydrostatic Crush	ASTM D2736	6,250 psi (43.1 MPa)
Water Absorption, 24 hrs	ASTM D570	<2%

Product Instructions:

SynFoam SV-44 requires mixing prior to use. Component A and B must be weighed to the proper amount and blended until uniform. The glass bubbles are then added to the mix and blended into the system. Use of a low shear mixer is recommended to avoid breaking of glass bubbles during processing. After the mix is uniform it can be poured into any cavity or void. The initial cure will take place over a 24 hour period at which point any machining, finishing, painting or other operation can be done. Full properties will be reached in 7 days.

SynFoam SV-44 should be stored in a dry area at temperatures between 45 and 100°F. Component A can freeze if exposed to low temperatures and will require heat to liquefy again if that occurs. Component C should be kept free from moisture to prevent absorption by the glass filler. Keep containers sealed when not in use.

Availability:

SynFoam SV-44 is available as 0.5 cubic foot, 1 cubic foot, and 7 cubic foot kits. SynFoam also offers custom castings of the material if required. Please contact us for more information on custom molding services or the need for custom size material.

We also provide custom coloring of SV-44. The coloring of the SV formulations can eliminate the need for cosmetic coatings such as safety yellow or orange polyurethane paints. Please contact us with any coloring requirements and any specifications that those colors must meet.

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