



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

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www.Polycoat.com

PRODUCT DATA SHEET

PSF 312-N-2 Rigid Polyurethane Spa Foam System

Typical Properties PSF 312 A-Comp (ISO)

Viscosity, mPa-s @ 25°C:	200-250
Lbs/gal	10.33
Specific Gravity @ 25°C :	1.24
Appearance @ 25°C:	liquid

Typical Properties PSF 312 B-Comp (polyol blend)

Viscosity, mPa-s @ 25°C:	700-1000
Lbs/gal	9.85
Specific Gravity @ 25°C :	1.14
Appearance @ 25°C:	viscous liquid

Product Description:

PSF 312 is an HCFC blown rigid polyurethane spray foam system developed for spas and hot tubs. This system is a UL94 rated. The PSF 312 is available in 2.0 and 5.0 pcf densities.

APPLICATION:

PSF 312-N is specifically designed add, both insulation and structural properties in the manufacturing of spas and hot tubs. The PSF 312-N line of spay foams exceed all UL94 requirements for flammability and thermal aging of foamed plastics used in end product devises and appliances.

Storage and Handling:

Containers for both A and B components should be kept tightly closed to prevent moisture contamination. Do not reseal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Component B may be stored at ambient temperatures. Storage for Component A should be maintained between 77°F (25°C) and 95°F (35°C). An additional note of caution is that exposure to temperatures over 400°F (204°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens or other methods that distribute heat evenly. Avoid using drum heaters or other heat sources that may cause excessive local heating.

Health and Safety Information:

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling any of the products listed above. Before working with these products, it is your responsibility to read and become familiar with the available information on its hazards, proper use and handling. This is extremely important and cannot be overemphasized. Information is available in several forms, e.g. material safety data sheets and product labels. To obtain this information, contact your Polycoat Product representative.

Typical Physical Properties*

Density, pcf (In Place)	ASTM D-1622	2.0
Compressive Strength, psi	ASTM D-1621	26
Tensile strength, psi	ASTM D-1623	38
K-factor initial, btu in./hr ft²F°	ASTM C-518	0.15
Water Absorption	ASTM D-2842	2.2 %
Dimensional Stability, DRY	ASTM D-2126	+2.5%
WET		+7.5%
CLOSED CELL CONTENT	ASTM D-1940	90%

Processing Recommendations

Ratio, By VolumeA/B		50/50
Spray Pressure, psi		1000 minimum
Temperature settings:		A=120-125 °F
		B=130-135 °F
		H=110-120 °F



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