

VFI®-2839 95 A ALIPHATIC SPRAY COATING

VFI-2839 95 A Aliphatic Spray Coating is a fast-setting, two-part polyurea rubber that is best applied by spray as an encapsulant material to protect edges on smaller pieces like table edging. It has excellent physical properties such as color stability, moisture insensitivity, and durability for versatile applications in indoor and outdoor environments. Good chemical and solvent resistance allow the material to withstand harsh environments and climate changes.

- Completely UV stable for outdoor and indoor use
- 100% solids and 0 VOCs
- Offers easy, fast-setting spray application
- Smooth finish with great flexibility

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULTS
Hardness Shore A	ASTM D2240	97 A
Tensile Strength	ASTM D412	1,200 psi
Elongation	ASTM D412	300%
Tear Strength	ASTM D624	400 pli
Cold Temperature Flexibility	ASTM D3111	Pass
Adhesion Strength Prepared Steel/Prepared Concrete	N/A	>500 lbs/in ²

LIQUID PROPERTIES	TEST METHOD	TEST RESULTS
Solids by Weight	ASTM D1644	100%
Solids by Volume	ASTM D2697	100%
Liquid Density A Side	ASTM D2939	8.68 lbs/gal
Liquid Density B Side	ASTM D2939	8.47 lbs/gal
Ratio by Volume (A:B)	N/A	1A:1B
Viscosity A Side	ASTM D2196	800 cps
Viscosity B Side	ASTM D2196	1000 cps
Gel Time	N/A	6 secs
Tack Free	N/A	45 secs
Recoat Window	N/A	20 mins
Full Cure	N/A	3 days

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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THICKNESS REQUIREMENTS

The sprayable rubber should be applied in layers at least 40 mils thick, but applications of 80 mils or more will produce the most optimal results. Allow the first coat to become tacky before applying additional coats and stay within the 20-minute recoat window. If the coating fully cures between coats, it may cause delamination.

EQUIPMENT

When spraying, it requires heated, airless plural component spray equipment capable of producing a minimum spray pressure of 2,000 psi and heat between 140°F-160°F. Spraying at higher pressures, between 2,000-3,000 psi, may provide better mixing and optimal physical properties. It can also be used in an injection molding system.

SURFACE PREPARATION

Surfaces must be clean and free of contaminants such as dirt, dust, or debris. A release agent must be used on all products intended for demolding to prevent unwanted adhesion and extend the life of the molding surface. When enhanced adhesion is needed, use VFI-#11 on cementitious and masonry surfaces. Steel should be white blasted per SSPC-SP10 to remove all dust, coating, and mill scale. Sandblast or shot blast all concrete surfaces to achieve a profile equal to 80-100 grit sandpaper.

MIXING

Premix the B side (Poly) until uniform before use. Mix times may vary based on volume and mixing method. VFI-2839 must be brought to a minimum of 65°F for proper mixing and application.

CLEANUP

The preferred cleanup solvent is xylene or MEK. When flushing out spray lines, we recommend using VFI-8005 Pump Flush to fully clean out the lines.

STORAGE/SHELF LIFE

Store between 60°F - 90°F in a clean, dry building. The shelf life of unopened containers is 12 months after the date of manufacture. Keep the material above 60°F to prevent it from freezing and ship it in heated trucks. Once open, use it immediately. If you plan on storing after opening, both sides must be nitrogen purged.

PRECAUTIONS

VFI-2839 contains aliphatic isocyanate, which can irritate the skin and is toxic if inhaled as particulate matter. Avoid prolonged breathing of vapors and repeated skin contact by utilizing proper PPE. Use only with adequate ventilation. Protect the material from moisture exposure, as water will cause the A side (Iso) material to generate carbon dioxide, resulting in high pressure in closed containers. Do not thin or add foreign material to the product. See Safety Data Sheet for complete safety instructions.