

VFI®-6031 75 A POLYUREA HYBRID SPRAY COATING

VFI-6031 75 A Polyurea Hybrid Spray Coating is a 100% solids, flexible, cartridge-based, spray-applied coating that creates a smooth, durable film on flexible surfaces. It works in conjunction with the portable, cost-effective Qwik Spray Gun, allowing for easy equipment startup and low maintenance. The two-component polyurea hybrid has resistance to impact and thermocycling and provides a fast-setting, elastomeric finish without adding too much structure or weight.

- Creates a flexible, smooth surface that is durable against impact
- Great resistance to thermocycling, abrasion, chemicals, & scratches for outdoor use
- Extremely fast setting for a quick turnaround on projects
- Effective bonding to properly prepared surfaces
- Convenient and hassle-free setup allows for cost-effective, portable application
- No cleaning solvents are required; simply throw away the cartridge once empty

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULTS
Shore Hardness	ASTM D2240	76 A
Tensile Strength	ASTM D412	1,000 psi
Elongation at Break	ASTM D412	340%
Tear Strength (Die C)	ASTM D624	135 pli
Low Temperature Flexibility (1/2" Mandrel bend at 0°F)	N/A	Pass
Weathering	N/A	Not UV Stable
Abrasion Resistance	ASTM D4060	N/A
Impact Resistance (Falling Dart) @ 40 mils	ASTM D1709	>28 in•lb
Linear Shrinkage	N/A	N/A
Standard Color	N/A	Neutral

LIQUID PROPERTIES	TEST METHOD	TEST RESULTS
Solids by Volume	ASTM D2697	100%
Mix Ratio by Volume	N/A	1A:1B
Weight per Gallon A Side	ASTM D1475	8.79 lb/gal
Weight per Gallon B Side	ASTM D1475	8.54 lb/gal
Viscosity A Side	ASTM D2196	420 cps
Viscosity B Side	ASTM D2196	1,000 cps
Gel Time	N/A	20 seconds
Tack-Free Time	N/A	N/A
Cure to Handle	N/A	48 hours
Recoat Window	N/A	<1 hour
Full Cure Time	N/A	7 days
Volatile Organic Compounds	N/A	0

MANUFACTURER OF HIGH-PERFORMANCE POLYMERS
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THICKNESS REQUIREMENTS

VFI typically recommends spraying between 40 and 80 mils for the best coverage. More coats can be applied for improved impact resistance. Apply them within an hour after the initial coating for ensured adhesion.

EQUIPMENT

VFI-6031 requires a low-pressure, plural component spray applicator like the VFI-7500 Qwik Spray Gun, which can hold 750 mL dual cartridges. To run the equipment, an air compressor that can provide dry air and a minimum of 100 psi at 10 CFM of constant pressure is required.

SURFACE PREPARATION

Clean all surfaces of contaminants such as oils, dirt, or debris for ensured adhesion. If used for molding, the applied surface must be sealed with a release agent, especially if it is porous and you plan on demolding.

Some substrates may require sanding, so an adhesion test should be performed before coating. When applying over foam, allow the foam to age for at least 30 days so any gas can escape.

MIXING

Bring the material to a minimum temperature of 65°F before use. Do not heat the material in a microwave. As a cartridge-based system, VFI-6031 does not require mixing, except if the material is visibly separated. If separation is visible, shake the cartridge until uniform.

APPLICATION GUIDELINES

The surface and ambient temperature should be between 40°F-100°F during use. Cure speed will increase above 72°F. Keep the cartridge vertical with the label facing up when loading it into the gun.

Once you start spraying, you cannot stop until the cartridge is empty without switching tips. Plan your spray pattern for even distribution. Spray onto a disposable surface to ensure the material is adequately mixed before spraying onto the application surface. Once the cartridge is almost empty, spray onto a disposable surface again to keep off-ratio material from getting onto the application surface.

Projects can be put into service after 48 hours at room temperature, depending on application thickness. Full cure occurs after 7 days.

CLEANUP

Disconnect the static mix tip by pressing the push-to-connect fitting on the air supply hose. Remove the cartridge from the applicator frame and throw it away. If there is residue on the spray gun, you can use xylene or MEK to wipe it off before it fully sets. Never soak the gun in a cleaning solvent.

STORAGE/SHELF LIFE

The material shelf life is 6 months from the date of manufacture. Store in a clean, dry, temperature-controlled space between 60°F-90°F.

PRECAUTIONS

VFI-6031 is not UV color-stable and has no long-term UV testing. This product contains isocyanate, which may cause skin irritation, and inhalation can be toxic. Avoid prolonged breathing of vapors and repeated skin contact. Use a supplied air respirator or respirator with forced air ventilation in a chemically approved spray booth. Do not thin or add foreign material to the product. See the Safety Data Sheet for all safety information.