

VFI®-542 HIGH PRESSURE SPRAY BEDLINER

VFI-542 High Pressure Spray Bedliner is a fast setting, 100% solids, polyurea hybrid spray-on bedliner. It provides truck beds with a durable layer of protection from impact and abrasion. Once cured, it forms a seamless membrane that keeps water from penetrating the surface, preventing rust and corrosion. With a fast-setting speed, the fine texture it creates prevents cargo from slipping and skidding. VFI-542 is a versatile material with excellent properties, including tensile strength and elongation, to protect and lengthen the life of the surface.

- Formulated for maximum impact and abrasion resistance
- Superior slip and skid resistant from cargo movement
- Delivers watertight seal for superior rust and corrosion protection
- Extended protection from wear while still maintaining flexibility
- Eliminates vibration noise and offers sound dampening capabilities

PHYSICAL PROPERTIES	TEST RESULTS
Hardness Shore D	57 D
Tensile Strength	2,410 psi
Elongation	80%
Tear Strength	241 pli
Solid Material Density	65.75 pcf
Elastic Modulus	12,987 psi
Yield Strength	1,464 psi
Permanent Set	2%
Cold Temperature Flexibility	Pass
Adhesion Strength Prepared Steel/Prepared Concrete	675/825 lbs/in ²

LIQUID PROPERTIES	TEST RESULTS
Solids by Volume	100%
Liquid Density A Side	9.38 lbs/gal
Liquid Density B Side	8.26 lbs/gal
Mixed Liquid Density	8.83 lbs/gal
Ratio by Volume (A:B)	1A:1B
Viscosity A Side	900 cps
Viscosity B Side	800 cps
Gel Time	4 seconds
Tack Free	28 seconds
Recoat Time	2 hours
Place into Service	light 4 hours full 24 hours
Full Cure	5 days
VOC	0

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

Toll-Free 800-307-9218 | volatilefree.com | info@volatilefree.com

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EQUIPMENT

VFI-542 should be used by a trained applicator who has experience using a high-pressure, plural-component spray system. The high-pressure spray rig should be able to provide a minimum 2000 PSI of constant pressure.

SURFACE PREPARATION

When spraying a truck bed, remove all hardware and accessories you do not want to be sprayed. Clean all surfaces with acetone or MEK to remove any oil, films, or detergents that affect adhesion. Allow cleaning agents to dry before taping up the truck bed. For clean-cut lines, use wire tape to define the edges of the bed liner on the surface. Place the wire on the inside and the tape on the outside of the cut line. Use masking tape and plastic sheets to cover the rest of the truck or any areas you want to protect from overspray.

Scuff the area where the coating will be applied with a wire cup brush sander or 40-grit sandpaper. Do not grind down to bare metal as this could cause the bed liner to peel off the surface over time. Once scuffed, clean the surface again with acetone or MEK and allow it to dry.

To increase adhesion on certain surfaces, use a VFI-approved primer (VFI-#11, VFI-1016, or VFI-1017). Primer is usually not required on metal surfaces.

MIXING

Before using VFI-542, bring the material to a minimum temperature of 65°F. The B side (Poly) must be premixed until uniform before spraying. The time it takes to mix will depend on volume and mixing method.

APPLICATION GUIDELINES

The temperature should be between 40°F - 100°F during application. The cure speed will increase if the temperature passes 72°F. When spraying a truck bed, start spraying the vertical side and back panels before working down toward the end of the bed. VFI recommends applying the bedliner at 80 mils. As a final step for texture, spray over but not directly onto the surface until the desired finish is achieved.

Allow the material to set for at least 20 minutes before removing the tape and plastic coverings. To remove the wire tape, pull at a 45-degree angle toward the sprayed surface. Remove all plastic sheeting and masking tape before reassembling hardware and accessories. The surface should be ready for light use within 4 hours and full use within 24 hours. A full cure can be achieved in 5 days.

CLEANUP

VFI recommends using xylene or MEK when cleaning spray equipment. Flush the cleaning solution through spray lines until the bed liner is completely removed.

STORAGE/SHELF LIFE

Store between 60-90°F in a clean, dry building. The shelf life of unopened containers is 12 months after the date of manufacture. When in use, attach a desiccant cartridge to both drums to prevent moisture from entering the mixture. The Iso side can be nitrogen purged if you store it after opening.

PRECAUTIONS

VFI-542 contains isocyanate, which can irritate the skin and is toxic if inhaled as particulate matter. Do not thin or add foreign material to this product. Avoid prolonged breathing of vapors and repeated skin contact. Use in a chemically approved spray booth with all necessary PPE, including a supplied air respirator or respirator with forced air ventilation. See the Safety Data Sheet for all safety information.

19500 JANACEK COURT | BROOKFIELD, WI 53045 | 262-787-0400 | TOLL-FREE 800-307-9218 | FAX 262-787-0500 | INFO@VOLATILEFREE.COM

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