



VFI-544 QWIK SPRAY SYSTEM TRUCK BED SPRAYLINER ELASTOMER

Overview

- **Description**
 VFI-544 Aromatic Polyurea Hybrid Lining System is a 100% solids, two component, applied truck bed liner.
- **Usage**
 VFI-544 is primarily used for lining of truck beds and repair of existing truck bed liners. It is also possible to apply a semi-smooth non-textured surface where improved slip is needed to enhance ease of loading and unloading trucks. Other uses include:
 - Lining of material handling equipment
 - Under coating of vehicles and as an anti-chip rocker panel coating
 - Water proofing of structures
 - Protection of concrete from some acids and alkaline materials
 - Coating of urethane and extruded polystyrene foam insulation
- **Color**
 Standard color is black. Contact Volatile Free, Inc. for information on custom colors.

Physical Properties

- **Hardness**
 ASTM D-2240
 Shore A 87-90
 Shore D 39-41
- **Tensile Properties**
 ASTM D-412
 Strength 2182 psi
 Elongation 110%
 Elastic Modulus 3850 psi
 Yield Strength 551 psi
 Permanent Set 10% max
- **Tear Strength**
 ASTM D-624 187 pli
- **Solid Material Density**
 65.78 PCF
- **Cold Temperature Flexibility**
 ASTM D-3111
 0.25 inch mandrel @ 2°F Pass

Weather & Environmental Performance

- **Service Temperature**
 -40°F to 180°F
- **Weatherability QUV Test Data**
 ASTM G-53
 No cracking, checking or loss of integrity after 2000 hours. This is an aromatic product. Light colors yellow when exposed to UV light.
- **Chemical Resistance**
 Contact VFI for specific chemical verification.
- **Fire Resistance**
 Not Rated
- **Hydrolytic Properties**
 - **Water absorption**
 ASTM D-471
 24 hours @ room temperature 0.5%
 - **Water Vapor Permeability**
 ASTM E-96 0.53 perm @ 31 mil thickness

Liquid Component Properties

- **Ratio**
 Volume 1 to 1
- **Coverage**
 One case of six cartridges, 750 x 750 ml, will cover 100 sq. / ft. @ 38 mil thickness.

- **Solids**

Weight	100%
Volume	100%
- **Viscosity**

"A" side	800 ± 300 cps @ 77°F
"B" side:	1000 ± 300 cps @ 77°F
- **Liquid Material Density & Specific Gravity**

"A" side	9.32 lbs/gal. (SG 1.119 g/ml)
"B" side:	8.22 lbs/gal (SG 0.987 g/ml)
- **VOC**

Conforms to air pollution regulations.
Contains no volatile organic compounds.
- **Toxicity**

ISO component contains polymeric Isocyanate requiring fresh air supply respirator, gloves and protective clothing during application.
- **Storage Stability or Shelf Life**

6 months in unopened containers
@ 60°F-90°F.
- **Reactivity**
 - **Gel Time:** 2-5 seconds
 - **Tack Free:** 15–40 seconds
 - **Put Into Service Time:** Light duty 4 hours.
Full service in 24 hours
 - **Recoat Time:** 4 Hours, after 4 hours use VFI-1007 tie coat primer for best adhesion
 - **Cure Time:** Full cure in 2-7 days

Application

PLEASE VIEW THE QWIK SPRAY SYSTEM TRAINING VIDEO BEFORE SPRAYING THE COATING. Call your VFI representative with any questions.

- **Equipment**

Apply VFI-544 using the Qwik Spray System pneumatic spray dual cartridge gun. Ensure that the compressed air source is dry, and can provide a constant 10 cfm at 90 psi. Use the static mixer with the air atomizer tip supplied with your cartridges.
 - **Material Preparation**

Cartridges should be approximately 77-85°F before using. Temperature of the product is very important. Shake cartridges for 30 seconds. Install the static mixer onto the cartridge making sure the cartridge stay straight up until ready to pull the trigger.
 - **Gun Preparation**

With 110 psi inlet pressure, set fluid flow to maximum and airflow to the atomizer at 25-50 psi. Different material temperatures require different pressures.
 - **Substrate Preparation**

Contact VFI for complete preparation of truck beds.
 - **Spray Techniques**

Start spraying on a piece of cardboard or other disposable surface until an acceptable spray pattern is achieved.
 - **Clean-up Solvent**

Xylene, MEK. For reduced fire hazard use glycol ethers or environmentally acceptable chlorinated solvents.
 - **Limitations**

Contact VFI for appropriateness of this product for your specific application.
 - **Precautions**

See Safety Data Sheet for complete safety data. Protect from exposure to moisture. Water will cause the "A" component (ISO) to generate carbon dioxide with resulting high pressure in closed containers.
 - **Thinning**

Do not thin
 - **Packaging**

6 - 750 x 750 ml dual cartridges are sold in a case.
- This should take 2-3 seconds. When an acceptable spray pattern has been achieved, fan over to the object working with even passes and build coats to the desired thickness. Visually monitor material levels and stop coating application just prior to emptying the cartridge to ensure that an even ratio of the material is applied to the surface. VFI-544 can be textured with typical overspray techniques.

For more information, contact us today at **800-307-9218**

Corporate Office: P.O. Box 344 • Brookfield, WI 53008 • (800) 307-9218 • (262) 787-0400 • Fax (262) 787-0500 • www.volatilefree.com

This information and technical advice provided herein are believed to be reliable and accurate to the best knowledge of Volatile Free, Inc., as based on tests and should serve only as a recommendation. As the manufacturer, Volatile Free, Inc. makes no representations or warranties of any kind, expressed, implied or statutory, including but not limited to all implied warranties of merchantability or fitness for use or a particular purpose, or any other matter with respect to this product. Volatile Free, Inc. makes no representations or warranties as to the results of the use of the product and assumes no obligation or liability in connection therewith. Volatile Free, Inc. is not liable for any special, exemplary, punitive, incidental or consequential damages of any sort or kind from use of this product. The information provided herein is subject to change at any time without notice. Information changes may include, but are not limited to, commercial and technical changes, changes in pricing, physical characteristics and packaging.