

VFI®-543 LOW PRESSURE SPRAY BEDLINER

VFI-543 Low Pressure Spray Bedliner is a fast setting, 100% solids, polyurea hybrid bedliner. It creates a durable and rust preventive layer over any surface for long-lasting protection. As a low-pressure material, it is an economical option for a spray-on bedliner and is great for applications that don't require rapid cure times. It has the ability to withstand cracking, warping, and peeling in extreme hot and cold temperatures. VFI-543's polyurea hybrid technology provides high properties, including excellent tensile strength and elongation, to protect the surface from damage and extend its life.

- 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	40 D
Tensile Strength	2,200 psi
Elongation	140%
Tear Strength	210 pli
Solid Material Density	65.45 pcf
Elastic Modulus	4,500 psi
Yield Strength	800 psi

LIQUID PROPERTIES	TEST RESULTS
Solids by Volume	100%
Liquid Density A Side	9.32 lbs/gal
Liquid Density B Side	8.19 lbs/gal
Mixed Liquid Density	8.75 lbs/gal
Ratio by Volume (A:B)	1A:1B
Viscosity A Side	500 cps
Viscosity B Side	800 cps
Gel Time	10 seconds
Tack Free	1 minute
Recoat Time	4 hours
Place into Service	light 4 hours full 24 hours
Full Cure	5 days
VOC	0

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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EQUIPMENT

VFI-543 should be sprayed using a low-pressure, plural component spray system.

SURFACE PREPARATION

If you are coating a truck bed, remove all hardware and accessories you do not want to be sprayed. You can also remove the tailgate and spray it separately from the rest of the truck. Use acetone or MEK to clean surfaces of oils, films, and detergents, and then allow them to dry. Use wire tape to accurately define the edge of the bed liner for straight cuts. When applying the tape, position it along the desired trim line with the wire side facing the surface. With masking tape and plastic sheeting, cover the rest of the truck and areas that will not be coated. Ensure the plastic sheeting is enclosed over the surface to protect from overspray.

Scuff all surfaces that are to be sprayed with a wire cup brush sander or 40-grit sandpaper. Do not sand to bare metal. Doing so could affect the integrity of the finish and cause the bed liner to peel eventually. Clean the newly scuffed surface with acetone or MEK and allow it to dry before proceeding.

Some substrates may need a primer for ensured adhesion, so we recommend using VFI-#11, VFI-1016, or VFI-1017. In most cases, you will not need to use primer on prepared metal surfaces.

MIXING

VFI-543 must be brought to a minimum temperature of 65°F before use. Premix the B side (poly) until uniform before spraying. Mix times will vary depending on volume and mixing method.

APPLICATION GUIDELINES

The surface temperature should stay between 40°F - 100°F while spraying and curing. If the temperature passes 72°F, the cure speed will increase. The average coverage for the best results is 80 mils. When spraying a truck bed, start with the vertical side and back panels before working down toward the end of the bed. As a low-pressure system, VFI-543 creates a rough, consistent, but slightly larger texture than a high-pressure spray truck bedliner. If more texture is wanted, spray over but not directly onto the surface until the desired finish is achieved.

Allow the material to sit for at least 20 minutes before removing all wire tape, masking tape, and plastic sheeting. To remove the wire tape, pull at a 45-degree angle toward the coated surface. The surface should be ready for light use in as little as 4 hours and full use within 24 hours. Allow the surface 5 days to cure completely.

CLEANUP

When cleaning spray equipment, VFI recommends using xylene or MEK. Flush the cleaning solution through the spray lines until the material 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-543 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.

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