

TRUCK BED SPRAY LINER ELASTOMER SYSTEM

■ Description

VFI-542 is 100% solids, two component, fluid applied, polyurea hybrid coating.

■ Usage

VFI-542 is primarily used for lining the interior of truck beds in order to provide corrosion protection, resistance to abrasion, skid resistance and to improve appearance. Where improved slip is needed, it is also

possible to apply a smooth non-textured surface to enhance ease of loading and unloading trucks. Other uses include lining of material handling equipment, coating of urethane or expanded polystyrene foam insulation, protection of concrete from acids and alkaline materials.

■ Color

Black. Contact your Volatile Free, Inc. Representative for other colors.

Physical Properties

■ Chemical Resistance

Good resistance to inorganic bases, acids and hydrocarbon solvents. Fair resistance to oxygenated and chlorinated solvents. Good resistance to hot water up to 180° F.

■ Tensile

ASTM D-412
Strength: 2151 psi
Elongation: 35%
Permanent Set: 10% max.

■ Hardness

ASTM D-2240
Shore A 93
Shore D 50

■ Tear Resistance

ASTM D-624
Die C 167 p/i

■ Abrasion Resistance

Excellent.

■ Water Vaor Permeability

ASTM E-96
Method B 0.83 perm @
64 mil thickness @ 68°F

Liquid Component Properties

■ Solids

Weight: 100%
Volume: 100%

■ Viscosity

Poly Component:
600 - 1000 cps @ 77°F.
Iso Component:
600 - 1000 cps @ 77°F.

■ Density

Poly Component: 0.99
Iso Component: 1.14

■ V. O. C.

Conforms to all Air Pollution regulations. Contains no Volatile Organic Compounds.

■ Flash Point

ASTM D-56 (TCC)
Greater than 200°F

■ Toxicity

Iso component contains polymeric isocyanate requiring fresh air supply respirator, gloves, and protective clothing during application.

■ Storage Stability

12 months in unopened containers @ 50° - 90°F.

Application

Thoroughly mix the colored component in order to re-suspend any pigment that may have settled out. Apply, using hot airless spray equipment capable of producing a minimum of 1500 psi and maintaining an application temperature of 130° - 150°F. The mixing ratio shall be maintained within 0.95 to 1.1 volume of isocyanate to 1 volume of polyol. Impingement mixing, air purge spray guns are suggested for ease of application. VFI-542 gels in 2-5 seconds and cures to handle in 10-30 seconds when applied using hot airless spray equipment. Allow 1 to 4 hours

for complete cure before placing coated items into service. Other variations of VFI-542 include the same polymer system supplied with a mixing ratio of one volume isocyanate component to two of polyol. A slightly softer version with a 40 Shore D hardness is also available. Other properties that can be enhanced include anti-static properties and low coefficient of friction additives to aid in unloading bulk material and enhance wear properties. Please contact your V.F.I. Representative for additional information.

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