



## VFI®-201 50 D Polyurea Coating

**VFI®-201 50 D Polyurea Coating** is a fast setting polyurea capable of being sprayed vertically or horizontally. With good flexibility and durability, VFI-201 can provide strong films for abrasion and industrial use. VFI-201 50 D Polyurea Coating works as a general all-purpose polyurea with low moisture sensitivity and good adhesion with many different surfaces. A 100% solids, two-part spray polyurea, VFI-201 can be sprayed through a high-pressure plural component machine and applied in layers to build thickness.

### → Technical Usage

VFI®-201 50 D Polyurea Coating has been used in the following applications and may be used in many more applications. Contact Volatile Free, Inc. for more information on any specific applications.

- Industrial Coatings
- Sacrificial Coatings
- Secondary Containment

### → Color

Standard colors are black and gray. For additional premium colors or color matching services contact Volatile Free, Inc.

### → UV Stability

This product is UV color resistant. For additional information contact Volatile Free, Inc.

### → Coverage/Thickness Requirement

Contact Volatile Free, Inc. for thickness requirements and specifications.

### → Storage Stability/Shelf Life

12-month shelf life from date of manufacture when stored and sealed in unopened containers between 40°F - 75°F. Opened containers may be resealed with a nitrogen purge, but shelf life will be significantly shortened. Material should be brought to a minimum temperature of 65°F before use.

### → Equipment

For specific instructions and equipment requirements, contact Volatile Free, Inc.

### → Surface Preparation

Surface preparation depends on application and substrate being coated. All surfaces should be cleaned, prepped and free of any oils, dirt or films that could affect the product's adhesion. Contact Volatile Free, Inc. with any additional questions.

### → Mixing

Pre-mixing Poly (B) components until uniform is required before spraying. Mix times vary depending on volume and mixing method. Please contact Volatile Free, Inc. for more information on any specific mixing questions and requirements.

### → Material Application

Temperature should be between 40°F - 100°F when the product is being used. The speed will increase with temperature beyond 72°F. Contact Volatile Free, Inc. for more information on recommended release agents or sealants.

### → Primers

Contact Volatile Free, Inc. with any primer questions.

### → Cleanup Solvent

Preferred cleanup solvent is xylene or MEK. Please contact Volatile Free, Inc. for more information on cleanup of equipment and tools.

### → Thinning



Do not thin prior to application.

### → Precautions

Contains isocyanate that may be irritating to the skin and is toxic if inhaled as particulate matter. See Safety Data Sheet for complete safety data. Do not add any foreign material to this product. Avoid prolonged breathing of vapors and prolonged or repeated skin contact. Use only with adequate ventilation.

# VFI®-201 50 D POLYUREA COATING

## Application Method

 SPRAY	 QWIK SPRAY	 BRUSH	 TROWEL	 ROLLER	 INJECTABLE	 POUR
X	-	-	-	-	-	-

## Physical Properties

<b>Hardness Shore A</b>	94
<b>Hardness Shore D</b>	50
<b>Tensile Strength</b>	2,880 psi
<b>Elongation</b>	448%
<b>Tear Strength</b>	387 pli
<b>Elastic Modulus</b>	6,222 psi
<b>Solid Material Density</b>	67 PCF
<b>Water Absorption</b>	1.50%
<b>Permanent Set</b>	35%
<b>Adhesion Strength Prepared Steel/Prepared Concrete</b>	900 lbs/in <sup>2</sup>

## Liquid Properties

<b>Solids by Weight</b>	100%
<b>Solids by Volume</b>	100%
<b>Liquid Density A Side</b>	9.04 lbs/gal
<b>Liquid Density B Side</b>	8.41 lbs/gal
<b>Mixed Liquid Density</b>	8.73 lbs/gal
<b>Specific Gravity A Side</b>	1.09 g/mL
<b>Specific Gravity B Side</b>	1.01 g/mL
<b>Specific Gravity Mixed</b>	1.05 g/mL
<b>Ratio by Volume (A:B)</b>	1A:1B
<b>Viscosity A Side</b>	400 cps
<b>Viscosity B Side</b>	450 cps
<b>Gel Time</b>	13 seconds
<b>Tack Free</b>	26 seconds
<b>Recoat Window</b>	8 hours
<b>Place into Service</b>	8 hours, chemical 24 hours
<b>Full Cure</b>	48 hours
<b>VOC</b>	0

## Packaging



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DRUM

 VOLATILE FREE, INC.

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