



## HIGH-PRESSURE POLYUREA COATING

VFI polyurea coatings are fast-setting, two-component, and sprayable through high-pressure equipment. They can achieve high builds for the protection of surfaces in various industrial applications such as concrete, wood, metal, and other porous surfaces where you would encounter moisture. These surfaces typically need protection from chemicals, abrasion, and impact.



**VFI-200 50 D Slow Polyurea Coating** works best when spraying large horizontal surfaces or over geotextile fabric due to its slower setting speed of 15-20 seconds. It's also preferred for spraying areas that need little to no texture, as it does not self-texturize.



**VFI-201 50 D Polyurea Coating** is our general-purpose polyurea and is desired for its spraying capabilities as it hangs well on horizontal and vertical surfaces. With an unchanged, reliable formula, the coating is trusted for its adhesion and excellent properties.



**VFI-202 50 D Fast Polyurea Coating** is extremely fast at 6 seconds, which is why it's sprayed on vertical and overhead surfaces without the risk of dripping. Due to its setting time, it will also self-texturize. Unlike our other polyurea coatings, it must be sprayed in thin passes under 1/2-inch thick.

**Ideal applications:** secondary containment, mining, premier truck bedliner, sacrificial coatings, high-end packaging, boat docks, etc.

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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**PHYSICAL PROPERTIES**
**TEST METHOD**
**JET FUEL**
**ETHANOL**
**GAS**
**DIESEL**
**Chemical Immersion (One-Side Cell Test)**
**Substrate: Concrete**
**2 Specimens; exposure area of 2in Ø**
**ASTM D6943**

Unexposed Control					
Blistering <sup>1</sup> [Rating]	ASTM D714 Size / Frequency		10		
Swelling / Thickness (mil)	ASTM D1005		-		
Surface Hardness <sup>2</sup> [pencil lead]	ASTM D3363 Scratch		H		
Indentation Hardness (Durometer) Type A-2	ASTM C661		90		
After 72h Exposure (no temp. gradient)					
Blistering <sup>1</sup> [Rating]	ASTM D714 Size / Frequency	10	10	10	10
Swelling / Thickness (mil)	ASTM D1005	54	54	88	3
Surface Hardness <sup>2</sup> [pencil lead]	ASTM D3363 Scratch	> 9H	> 9H	> 9H	H
Indentation Hardness (Durometer) Type A-2	ASTM C661	76	62	58	86
After 72h Exposure plus 48hr Recovery					
Blistering <sup>1</sup> [Rating]	ASTM D714 Size / Frequency	10	10	10	10
Swelling / Thickness (mil)	ASTM D1005	16	18	28	1
Surface Hardness <sup>2</sup> [pencil lead]	ASTM D3363 Scratch	4H	6H	7H	H
Indentation Hardness (Durometer) Type A-2	ASTM C661	86	76	78	88

**Chemical Immersion (Free Film Test)**
**2 Specimens; ASTM D412 Die C**
**ASTM D543**

Unexposed Control					
Tensile Properties 5 Specimens; Die C Test @ 73.4 ± 3.6°F Test Rate = 20in / min ± 3%	Strength <sup>3</sup> (psi)		2137		
	Elongation (%)		310		
After 72h Exposure (no temp. gradient)					
Tensile Properties 5 Specimens; Die C Test @ 73.4 ± 3.6°F Test Rate = 20in / min ± 3%	Strength <sup>3</sup> (psi)	755	321	362	2079
	Elongation (%)	130	90	85	278
After 72h Exposure plus 48hr Recovery					
Tensile Properties 5 Specimens; Die C Test @ 73.4 ± 3.6°F Test Rate = 20in / min ± 3%	Strength <sup>3</sup> (psi)	2175	1228	1980	2376
	Elongation (%)	328	313	343	318

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