

VFI®-200 50 D SLOW POLYUREA COATING

VFI-200 50 D Slow Polyurea Coating is a two-component, 100% solids, spray-applied coating capable of high builds on metal, concrete, and masonry. It is best used for industrial applications when spraying on horizontal surfaces to create a structure that protects from chemicals, abrasion, and impact. Due to its slower speed, VFI-200 has less chance of creating a heavy surface texture, which is why it is perfect for spraying larger areas that need little to no texture. VFI also offers different formulas in medium (VFI-201) and fast (VFI-202) setting speeds based on application needs.

- Low moisture sensitivity due to setting speed
- High tensile strength and elongation increase durability and longevity
- Slower speed reduces that chance of unwanted texture on large, flat surfaces
- Will not crack or break from extreme temperature changes
- Protects against chemical corrosion and resists repeated wearing to maintain original structure
- 100% solids content means no VOCs, and it retains 100% of its thickness after curing

PHYSICAL PROPERTIES	TEST RESULTS
Hardness Shore D	50
Tensile Strength	2,523 psi
Elongation	349%
Tear Strength	425 pli
Solid Material Density	66 pcf
Low Temperature Flexibility	Pass
Permeance	0.69 perm
Water Absorption	1.50%
Permanent Set	35%
Adhesion Strength Prepared Steel/Prepared Concrete	725 lbs/in ²

LIQUID PROPERTIES	TEST RESULTS
Solids by Volume	100%
Liquid Density A Side	9.19 lbs/gal
Liquid Density B Side	8.41 lbs/gal
Mixed Liquid Density	8.75 lbs/gal
Ratio by Volume (A:B)	1A:1B
Viscosity A Side	500 cps
Viscosity B Side	500 cps
Gel Time	8 seconds
Recoat Time	30 minutes
Place Into Service	8 hours, chemical 24 hours
Full Cure	48 hours
VOC	0

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

Toll-Free 800-307-9218 | volatilefree.com | info@volatilefree.com

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APPLICATION REQUIREMENTS

The material should be brought to a minimum temperature of 65°F before use. Apply the coating at a minimum of 30 mil passes. When applying additional coats, you must stay within the 30-minute open window. The slower speed of VFI-200 allows for easier recoating. VFI recommends applying a UV-stable topcoat once VFI-200 has fully cured for complete UV stability. Coated surfaces can be placed into service after a minimum cure of 24 hours.

STORAGE/SHELF LIFE

Store between 60°F - 90°F in a clean, dry building. The shelf life of unopened containers is 12 months after the date of manufacture. Once opened, it should be used immediately. If you are storing after opening, the container must be nitrogen purged.

MIXING

Before spraying, premix the Poly (B side) until uniform.

SURFACE PREPARATION

All surfaces should be clean, dry, and free of dirt, dust, and debris. Use a pressure washer on hard-to-clean surfaces to remove grease and oil. Treat mildew, fungus, and algae spots with a concentrated chlorine solution. Sandblast or grind away any loose paint, rust, and scale. Make any needed repairs to the surface to ensure the coating performs to the desired effect. Concrete surfaces must be aged a minimum of 28 days before application.

EQUIPMENT

Apply the material to the prepared surface using a plural component high-pressure spray rig. The spray equipment should be capable of spraying at 2,500 psi and temperatures between 135°F-150°F.

CLEANUP

VFI recommends cleaning application equipment with xylene or MEK. When flushing out spray lines, use VFI-8005 Pump Flush to remove all material from the hoses.

PRECAUTIONS

VFI-200 contains isocyanate, which is irritating to the skin and toxic if inhaled as particulate matter. Avoid prolonged breathing of vapors and repeated skin contact. Do not add foreign material to the product. Use only with adequate ventilation. See Safety Data Sheet for complete safety information.