

VFI®-202 50 D FAST POLYUREA COATING

VFI-202 50 D Fast Polyurea Coating is a fast-setting, two-component, spray-applied coating that excels at low-build, thinner passes on prepared metal, concrete, and masonry surfaces. It is best used for industrial applications when spraying vertically or overhead and won't drip. It creates structure over the surface to provide protection from chemicals, abrasion, and impact. The coating is perfect when a faster setting time is needed, and self-texturing is desired. VFI offers different polyurea formulas in slow (VFI-200) and medium (VFI-201) setting speeds based on application needs.

- Low moisture sensitivity due to fast-setting abilities
- High tensile strength and elongation increase durability and longevity
- Fast speed allows you to spray overhead without dripping
- Will not crack or break due to 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	2,000 psi
Elongation	200%
Tear Strength	400 pli
Solid Material Density	66 pcf
Permeance	0.69 perm
Water Absorption	1.50%
Permanent Set	20%

LIQUID PROPERTIES

TEST RESULTS

Solids by Volume	100%
Liquid Density A Side	9.12 lbs/gal
Liquid Density B Side	8.43 lbs/gal
Mixed Liquid Density	8.77 lbs/gal
Ratio by Volume (A:B)	1A:1B
Viscosity A Side	200 cps
Viscosity B Side	600 cps
Gel Time	5 seconds
Recoat Time	15 minutes
Place Into Service	8 hours, chemical 24 hours
Full Cure	48 hours
VOC	0

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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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 spraying over 100 mils, you must do multiple passes to avoid excessive amounts of heat. When applying additional coats, you must stay within the 15-minute open window. VFI recommends applying a UV-stable topcoat once VFI-202 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. Remove all loose paint, rust, and scale by sandblasting or grinding. 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-202 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.