

VFI®-425 HIGH PRESSURE FOUNDATION SPRAY COATING

VFI-425 High Pressure Foundation Spray Coating is a fast setting, 100% solids polyurea hybrid with excellent tensile strength. When applied before backfilling, the coating creates a seamless, long-lasting barrier that waterproofs commercial and residential foundations. The membrane's low permeability prevents water from penetrating into the foundation walls. As a polyurea hybrid, it has excellent chemical resistance and will not degrade underground. VFI-425 is an exterior defense for the foundation and provides the durability required to lengthen the life of the structure.

- Excels at waterproofing porous surfaces
- Provides a long-lasting, durable barrier of protection
- Easy to use, fast setting material for a quick return to service
- Excellent chemical resistance to prevent coating degradation
- Solids content allows it to retain 100% of its thickness after curing

PHYSICAL PROPERTIES	TEST RESULTS
Hardness Shore D	57 D
Tensile Strength	2,410 psi
Elongation	80%
Tear Strength	241 pli
Solid Material Density	65.75 pcf
Elastic Modulus	12,987 psi
Yield Strength	1,464 psi
Permanent Set	2%
Cold Temperature Flexibility	Pass
Adhesion Strength Prepared Steel/Prepared Concrete	675/825 lbs/in ²

LIQUID PROPERTIES	TEST RESULTS
Solids by Volume	100%
Liquid Density A Side	9.38 lbs/gal
Liquid Density B Side	8.26 lbs/gal
Mixed Liquid Density	8.83 lbs/gal
Ratio by Volume (A:B)	1A:1B
Viscosity A Side	900 cps
Viscosity B Side	800 cps
Gel Time	4 seconds
Tack Free	28 seconds
Recoat Time	2 hours
Place into Service	light 4 hours full 24 hours
Full Cure	5 days
VOC	0

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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EQUIPMENT

Use a high-pressure, heated plural component spray rig capable of 2,300-2,500 psi and temperatures between 130°F – 150°F to apply the coating.

SURFACE PREPARATION

Clean all surfaces so they are free of contaminants such as oils, dirt, and films that could affect the coating's adhesion. Loose particles can be brushed off or washed off with a power washer. Protrusions must be removed, and existing holes, cracks, or chips should be repaired. To achieve an acceptable surface for coating, you can sandblast or shot-blast smooth or contaminated concrete. New concrete must be dry and should be aged at least 28 days. VFI recommends using a primer such as VFI-1007 to seal porous surfaces.

MIXING

Before using VFI-425, bring the material to a minimum temperature of 65°F. The B side (Poly) must be premixed until uniform before spraying. The time it takes to mix will depend on volume and mixing method.

APPLICATION GUIDELINES

Both A and B side materials must be brought to a minimum temperature of 65°F before spraying. The target surface temperature should be between 40°F - 100°F during application. VFI requires an application of at least 40 mils to get the proper permeance. If additional coats are needed, they must be applied within the 2-hour recoat window. A foundation can be coated and backfilled the same day for a quick return to service.

CLEANUP

VFI's preferred cleaning solvent is xylene or MEK. When flushing spray lines, we recommend the VFI-8005 Pump Flush to remove the material from the hoses.

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.

PRECAUTIONS

VFI-425 contains isocyanate, which is irritating to the skin and toxic if inhaled as particulate matter. Avoid prolonged breathing of vapors and repeated skin contact. The product is UV resistant but will fade over time. Do not add foreign material to the product. Use only with adequate ventilation. See Safety Data Sheet for complete safety information.