

VFI®-2580 ALIPHATIC TOP COAT

VFI-2580 Aliphatic Top Coat is a solvent-based, single-component clear coating made to go over polyurea and polyurea hybrid coatings. As an aliphatic, it is chemically UV stable which allows it to protect and extend the life of other non-UV stable surfaces. It has a unique ability to penetrate and coat the surface to preserve the color and gloss of the existing coating. VFI-2580 can be applied by roller or spray and has a fast-setting time that allows it to cure in less than a day.

- Excellent color stability and UV weathering characteristics
- Excellent adhesion to existing polyurea and polyurea hybrid coatings
- Durable yet flexible finish to withstand abrasion and impact
- Good chemical resistance for application in harsh environments
- Long-term protection of exterior surfaces

PHYSICAL PROPERTIES	TEST RESULTS
Hardness Shore D	67
Tensile Strength	8,255 psi
Elongation	15%
Tear Strength	280 pli
Yield Strength	7,611 psi
Elastic Modulus	62,748 psi
Flexibility @ 15°F Mandrel (Pass/Fail)	pass
Permanent Set	5%

LIQUID PROPERTIES	TEST RESULTS
Solids by Weight	41.50%
Solids by Volume	36.50%
Mixed Liquid Density	7.84 lbs/gal
Mixed Specific Gravity	0.094 g/mL
Mixed Viscosity	550 cps
Tack Free	2 hours
Recoat Window	4-48 hours
Place into Service	36 hours
Flash Point	115° F
VOC	550 g/L

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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

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APPLICATION REQUIREMENTS

The surface temperature should remain between 40°F - 100°F during the application process. Apply a wet coat at a minimum of 5-10 mils thick. The higher the applied film thickness, the better the UV resistance of the base coat. Additional coats can be applied after the first coat has cured for about 4 to 6 hours. The time it takes for the coating to set will depend on film thickness, liquid material temperature, relative humidity, and substrate temperature, so allow a minimum of 4-8 hours before light use. Place into service after a minimum of 4 hours.

SURFACE PREPARATION

All surfaces must be clean and free of oils, dirt, or films for ensured coating adhesion. Remove dust using compressed air, a brush, or a rag, and wipe the substrate with MEK or another approved solvent. Primer is not recommended for most applications. The surface must be uniform, sound, and suitable for the coating. If the surface is aged, lightly sand or rough it up for coating adhesion. The surface must be dry before applying the clear top coat. VFI-2580 experiences the best results when applied to a surface with a hardness greater than 50 D and before the previous coating recoat window has expired.

EQUIPMENT

VFI-2580 can be applied by HVLP sprayer, single component spray equipment, or rollers.

CLEANUP

VFI recommends cleaning application equipment with xylene or MEK.

STORAGE/SHELF LIFE

Store between 60-90°F in a clean, dry building. The shelf life of unopened containers is 12 months after the date of manufacture. Opened containers can be resealed with a nitrogen purge, but the material shelf life will significantly shorten.

PRECAUTIONS

VFI-2580 contains isocyanate and VOCs over the EPA-regulated amount at 550 g/L. Isocyanate can be irritating when in contact with the skin or toxic if inhaled as particulate matter. Wear proper PPE, including an approved respirator, to avoid prolonged breathing of vapors and repeated skin contact. As a highly flammable liquid and vapor, all safety directions must be followed to prevent hazards. Use only outdoors or in a well-ventilated area. Do not thin or add foreign material to this product. See Safety Data Sheet for all safety information.