VFI®-2626 65 D BRUSHABLE HARD COAT

VFI-2626 65 D Brushable Hard Coat is a 1A:3B by volume, two-component polyurethane coating. Since it is applied by brush or trowel, it's used as a patch repair material with other hard coats or as a hard coating material on small-scale projects. It provides deformable surfaces such as EPS and other foams with structure and high rigidity for protection from impacts. The coating can be textured if desired, but can also be sanded, primed, and painted to improve the aesthetics of smaller pieces. It is capable of passing the ASTM E84 Class A fire test.

- Convenient brush application with no need for large, expensive spray equipment
- Increases aesthetics of small projects and blends well with existing hard coats
- High rigidity at 65 D with outstanding resistance to impacts
- Great for repairs, small sections, and specific curves
- Pre-measured containers ensure mixing accuracy for quick and easy application
- Encapsulates surfaces to provide waterproofing and splash protection

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULTS
Shore Hardness	ASTM D2240	65 ± 5 D
Tensile Strength	ASTM D412	1,700 psi
Tensile Modulus	ASTM D638	72,000 psi
Elongation at Break	ASTM D412	45%
Flexural Strength	ASTM D790	2,900 psi
Flexural Modulus	ASTM D790	87000 psi
Abrasion Resistance	ASTM D4060	N/A
Impact Resistance (Falling Dart, EPS Backing)	ASTM D1709	<6 in•lb
Weathering	N/A	Not UV Stable
Linear Shrinkage	N/A	N/A
Heat Deflection Temperature	ASTM D648	N/A
Standard Color	N/A	Neutral
Class A Fire Testing	ASTM E84	Yes

LIQUID PROPERTIES	TEST METHOD	TEST RESULTS
Solids by Volume	ASTM D2697	100%
Mix Ratio by Volume	N/A	1A:3B
Mix Ratio by Weight	N/A	1A:3.55B
Weight per Gallon A Side	ASTM D1475	10.18 lb/gal
Weight per Gallon B Side	ASTM D1475	12.11 lb/gal
Viscosity A Side	ASTM D2196	200 cps
Viscosity B Side	ASTM D2196	>200K cps
Pot Life	N/A	15 minutes
Cure to Handle	N/A	24 hours
Recoat Window	N/A	N/A
Full Cure Time	N/A	7 days
Volatile Organic Compounds	N/A	0

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THICKNESS REQUIREMENTS

Apply the coating at a minimum rate of 60 mils thick to develop a uniform film over the piece. The best film properties can be achieved at 100 mils or greater.

EQUIPMENT

VFI-2626 can be applied to any prepared substrate with a chip paint brush, notched trowel, or squeegee.

SURFACE PREPARATION

Surfaces should be clean and free of oils, dirt, debris, or other contaminants. Depending on the surface, a primer or additional sanding prep may be required.

- **EPS** – The foam must be aged for at least 30 days so any gas can escape. We recommend using 2 PCF foam for an optimal cost-to-quality ratio, but 1-3 PCF is acceptable. Ensure that the surface is clean and dry before you begin applying.
- **Wood** – The wood should be dry and contain less than 11% moisture; otherwise, it should be primed or mist-coated (a light dusting followed by the main application of the coating).
- **Metal** – The surface must be cleaned by roughly sanding or sandblasting to SP6 to remove rust, mill scale, dirt, and other contaminants.
- **Existing Hard Coat** – Surfaces must be sanded and/or primed before application to ensure adequate long-term adhesion.

MIXING

Thoroughly mix the Poly side (B) before combining. The pot life can be extended by mixing smaller quantities (ex. 200 grams will yield a 15-20-minute pot life while the full mix will yield about an 8-minute pot life). When pouring the material by hand, pour the pre-weighed Iso into the pre-weighed Poly. Mix the two until uniform, then transfer to a new container and mix until uniform again before use. VFI-2626 must be fully mixed and used before the pot life expires. Mix times will vary depending on material volume and mixing method.

APPLICATION & CLEANUP

For the best results, the temperature must stay between 50°F - 100°F during application. Curing will depend on film thickness and substrate temperature. A full cure may take up to 3 days at room temperature. The coated structure can be placed into service after curing at room temperature for a minimum of 24 hours. Higher hardness can be obtained by post-heating between 90°F - 110°F after 6 hours of initial curing. For theming purposes, begin priming or painting the coating at the first sign of cure to maximize adhesion.

Tools and equipment used to apply VFI-2626 can be cleaned with xylene or MEK.

STORAGE/SHELF LIFE

The shelf life of unopened containers is 12 months after the date of manufacture. Store the product between 60°F - 90°F in a clean, dry building. Once open, use it immediately. After opening, it is possible to store unused material by nitrogen purging both sides immediately after use.

PRECAUTIONS

VFI-2626 is not UV color-stable and has no long-term UV testing. It must be top-coated if intended for outdoor application. Isocyanate in the A side may be irritating to the skin and toxic if inhaled. Avoid prolonged breathing of vapors or repeated skin contact. Proper protective clothing and a fresh air supply respirator must be used during application. Use only with adequate ventilation. It must be protected from exposure to moisture. Water will cause the A side material to generate carbon dioxide, causing high pressure in sealed containers. Do not thin or add foreign material to the product. See Safety Data Sheet for complete safety information.