

## BRUSHABLE PLASTIC ENCAPSULANT

### ■ Description

VFI-2626 is a two component, 100% solids, one part iso to three parts poly by volume, slow cure polyurethane coating.

### ■ Usage

VFI-2626 is a batch mixed coating applied most commonly by brush or trowel that has been found to have the following applications (among others):

- Impact resistant coating for the protection of easily deformable substrates such as EPS and insulative foams.
- Structural plastic for use in part fabrication where only a moderate level of impact resistance is required.

- Plastic coating which may be textured to splash protect drywall, wood or other architectural substrates from many common liquids.
- Aromatic base coat used to provide a continuous surface for stapled wood constructs.
- Structural for foam sculptures.
- Gap or crack filler.
- Waterproof encapsulating material.

### ■ Color

Neutral (tan) is typical. Many other colors may be available upon request – Contact Volatile Free, Inc. for details.

## Liquid Component Properties

### ■ Weatherability

QUV results indicate that yellowing may be visibly discerned in neutral or off-white in 2 – 3 months continuous exposure. Dark colors such as black may persist for almost a year before oxidative damage may manifest itself as chalking. Physical properties, however, do not typically show significant change for even long periods of time.

### ■ Fire Resistance

VFI-2626 is self-certified as UL-94 V0 at 60 mils thickness.

Contact Volatile Free, Inc. for details.

### ■ Chemical Resistance

Hydrolytic Stability: Recovers after 10 days 150°F immersion. Generally resistant to most dilute aqueous agents when cleaned off within 10 hours of contact. Very difficult to stain by virtue of its high hardness and low porosity. Constant or frequent immersion service not recommended.

### ■ Tensile Properties

ASTM D-412  
Tensile Strength: 2742 psi  
Elongation: 9.7 %  
Yield Strength: 2653 psi  
Elastic Modulus: 17,127 psi

### ■ Tear Resistance

ASTM D-624: 156 lb/in

### ■ Hardness

ASTM D-2240  
Shore D: 65 - 70  
Depending upon postcure  
Conditions.

### ■ Impact Resistance

Unnotched Izod: Untested

## Physical Properties

### ■ Solids

% Nonvolatile (wt): 100%

### ■ Viscosity

Poly Component: Moderate - High @ 77°F  
Iso Component: 200 cps @ 77°F

### ■ Density

Poly Component: 12.11 lbs./gal.  
Iso Component: 10.3 lbs./gal.

### ■ Flash Point

ASTM D-56 (TCC)  
Greater than 200°F.

### ■ Toxicity

Iso component contains polymeric isocyanate requiring fresh air supply respirator, gloves, and protective clothing during application.

## Application

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### ■ Material Preparation

Thoroughly power mix Poly component before beginning to apply. Usually this takes a minimum of 5 minutes per pail with proper mixing equipment. For specific mixers, blade and shaft length, contact Volatile Free, Inc. A hand mixer is not adequate.

### ■ Equipment

Ordinary paintbrush, notched trowel (preferred), or squeegee.

### ■ Reactivity

Potlife(brush): 15 min @ 76F

Potlife(trowel): 12 min @ 76F

### ■ Cure Time

Applied coating will set in about 2 to 5 hours at 70°F, depending on film thickness, liquid material temperature and the substrate temperature. Generally complete cure takes from four to five days at room temperature. Product can be placed into service after one complete day of cure at 70°F minimum. After four days cure the hardness is around 65 shore D . Higher hardness may be attained by post heating the part to 90 – 110 F after 6 hours cure time. Prime the plastic part the next day, or better, later the same day.

### ■ Mixing

Volume 1 unit ISO : 3 units POLY by volume.

Weight 1 unit ISO : 3.55 units POLY by weight.

**Corporate Office: P.O. Box 344 / Brookfield, WI 53008 / 800-307-9218 / 262-787-0400 / Fax: 262-787-0500**

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