



VFI-2538 SPRAYABLE OR CASTBLE PLASTIC ENCAPSULANT

Overview

- **Description**
VFI-2538 is a two component, 100% solids, 1:1 by volume, moderately fast cure polyurethane coating.
- **Usage**
VFI-2538 is a plural component hydraulic (piston-proportioned) spray applied coating available in 600 & 1500 ml sets that have been found to have the following applications:
 - 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.
- Waterproof encapsulating material.
- Small castings measuring less than 1500 ml in total volume (with static mix tip).
- **Color**
Standard color is neutral. Contact Volatile Free, Inc. for more information on custom colors.

Physical Properties

- **Hardness**
ASTM D-2240
Shore D 69-71
- **Tensile Properties**
ASTM D412
Strength 5626 psi
Elongation 20%
Elastic Modulus 26,456 psi
Yield Strength 5354 psi
- **Tear Resistance**
ASTM D-624 547 lb/in
- **Impact Resistance**
Un-notched Izod 8 ft* lbs/in @ 73°F

Weather & Environmental Performance

- **Weatherability QUV Test Data**
QUV results indicate that yellowing may be visibly discerned in neutral or off-white in 2-3 months of continuous exposure. Dark colors such as black might persist for almost a year before oxidative damage may manifest itself as chalking. Physical properties, however, do not typically show significant change for longer periods of time.
- **Fire Resistance**
None. Contact Volatile Free, Inc. for more information.
- **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 immersion service not recommended.

