



VFI-3400-2 COMPONENT AROMATIC POLYURETHANE DECK BASECOAT

Overview

- **Description**
 VFI-3400 is a 2 component, aromatic polyurethane coating that can be batch mixed at an easy 1:1 by volume ratio for decking and coating projects. VFI-3400 offers good pot life and produces an elastomer with excellent impact and waterproofing properties. This product should be topcoated with VFI-3500 if used externally for a concrete decking basecoat.
- **Usage**
 VFI-3400 applications include:
 - Basecoat for concrete decking
 - Poured in potting and molding
 - Sealant, caulk and filler
 - Low temperature flexible molds
- **Color**
 Standard color is light gray.

Physical Properties

- **Hardness**
 ASTM D-2240
 Shore A 70-75
 Shore D 20-25
- **Tensile Properties**
 ASTM D-412
 Strength 1000-1300 psi
 Elongation 400%
 Elastic Modulus 800-1400 psi
- **Tear Strength**
 ASTM D-624 (Die C) 130 pli
- **Solid Material Density**
 66.30 pcf
- **Dimensional Stability**
 Shrinkage .010-.030%
 Depending on cure temperature.

Weather & Environmental Performance

- **Service Temperature**
 -30 °F to 180 °F.
- **Weatherability**
 VFI-3400 is an Aromatic Polyurethane. It is intended to be topcoated with VFI-3500 or a similar aliphatic, light UV stable material.

Liquid Component Properties

- **Ratio**
 - **By Volume**
 "A" side 1
 "B" side 1
 - **By Weight**
 "A" side 112
 "B" side 100
- **Viscosity**
 "A" side 400-800 cps @ 77°F
 "B" side 400-800 cps @ 77°F
- **Liquid Density & Specific Gravity**
 "A" side 9.35 lbs/gal (SG 1.12)
 "B" side 8.35 lbs/gal (SG 1.00)
- **VOC**
 Contains no volatile organic compounds.

- **Toxicity**
ISO component contains MDI Isocyanate requiring respirator, gloves, eye protection and protective clothing during application.
- **Reactivity**
 - **Pot Life:** 20-25 minutes at 77°F
 - **Gel Time:** 25-30 minutes at 77°F
 - **Recoat Time:** 4-48 hours at 77°F
 - **Cure Time:** Full properties reached in 3-5 days at 77°F.

*The substrate and ambient temperature will affect all reactivity data. Cooler temperatures will be longer and hotter temperatures will be quicker.

- **Storage Stability or Shelf Life**
 - “A” side: 6 months in unopened containers @ 60-90°F. The “A” side must remain stored in tightly sealed containers without exposure to moisture. If material freezes, heat in a convection oven to 150°F to melt to a liquid.
 - “B” side: 12 months in unopened containers @ 60-90° F. The “B” side is moisture absorbent. Keep unused material sealed to prevent moisture absorption.

Application

- **Equipment**
Hand mix, power mix or injection equipment. For equipment requirements and specific instructions, contact Volatile Free, Inc.
- **Material Preparation**
The product must be over 70° F for proper mixing. The Poly B side must be premixed slowly, at low rpm before using at low rpm (to minimize air entrapment) before mixing 1:1 with ISO A side.
- **Mixing**
VFI-3400 is a 2 component 1:1 by volume material. Measure out equal volumes of ISO A side and Poly B side (after this is separately mixed until uniform for 5-10 minutes) into a mixing container. Mix thoroughly and continuously for 2-5 minutes until a homogenous, gray color is present with no streaks present.
- **Concrete Deck Application**
Refer to VFI-3500 for Application instructions.
- **Limitations**
To verify this product is appropriate for your specific application, consult with Volatile Free, Inc.’s technical department
- **Clean-up Solvent**
Xylene, MEK. For reduced fire hazard use glycol ethers or environmentally acceptable chlorinated solvents.
- **Precautions**
See Safety Data Sheet for complete safety data.
- **Thinning**
Do not thin this material with any solvents.
- **Packaging**
 - 5 gallon pails
 - 15 gallon ponies
 - 55 gallon drums
 - 270 gallon totes