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

For more information, contact us today at 800-307-9218