



VFI-3600 MC LIQUID APPLIED POLYURETHANE ROOFING BASECOAT

Overview

- Description**
 VFI-3600 MC vertical is a 2 component, aromatic polyurethane coating that can be batch mixed at an easy 1:1 by volume ratio, or sprayed, for decking and roof projects. VFI-3600 MC offers good pot life and produces an elastomer with excellent impact and waterproofing properties. This product can be used for roof waterproofing basecoats where hail, impact and tear strengths are of high concern.
- Usage**
 VFI-3600 MC applications include:
 - Sprayed basecoat for roof coating
 - Rolled basecoat for roof coating
 - Sealant for roof leaks
 - Basecoat for VFI approved decking
- Color**
 Standard color is dark gray.

Physical Properties

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| <ul style="list-style-type: none"> Hardness
 ASTM D-2240
 Shore A 80-85
 Shore D 30-35 Tensile Properties
 ASTM D-412
 Strength 1500 psi
 Elongation 300% | <ul style="list-style-type: none"> Tear Strength
 ASTM D-624 (Die C) 150 pli Solid Material Density
 71.80 pcf Dimensional Stability
 Shrinkage .010-.030%
 Depending on cure temperature. |
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Weather & Environmental Performance

- Service Temperature**
 -30 °F to 180 °F.
- Weatherability**
 VFI-3600 MC is an Aromatic Polyurethane. It is intended to be top coated with VFI-990 or a similar aliphatic, if a light/UV stable coating system is desired.

Liquid Component Properties

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| <ul style="list-style-type: none"> Ratio <ul style="list-style-type: none"> ▪ By Volume
 "A" side 1
 "B" side 1 ▪ By Weight
 "A" side 100
 "B" side 98.8 | <ul style="list-style-type: none"> Viscosity
 "A" side 4500-6000 cps @ 77°F
 "B" side 1500-2400 cps @ 77°F Liquid Density & Specific Gravity
 "A" side 9.60 lbs/gal (SG 1.15)
 "B" side 9.50 lbs/gal (SG 1.14) VOC
 Contains no volatile organic compounds. |
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- **Toxicity**
ISO component contains MDI Isocyanate requiring respirator, gloves, eye protection and protective clothing during application.
- **Reactivity (Batch Mix)**
 - **Pot Life:** 30 minutes at 77°F
 - **Gel Time:** 35 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 and roller; or, plural component, high pressure spray 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-3600 MC is a 2 component 1:1 by volume material. For batch mix, 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.
- **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**

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