

  
**safecoat**<sup>®</sup>  
Building A Healthier World

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## AFM SAFECOAT TWO COMPONENT ALIPHATIC URETHANE

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**Description:** Safecoat Two Component Aliphatic Urethane Sealer is a premium quality crystal clear urethane that provides a tough, durable surface for floors requiring urethane flexibility, u.v. resistance and protection, chemical resistance, and superior adhesion. Use this product when high chemical resistance and durability is needed.

### Advantages

- |                              |                      |
|------------------------------|----------------------|
| * Abrasion resistant         | * Chemical resistant |
| * Stain Resistant            | * Non-Yellowing      |
| * Repels oil, grease & water | * U.V. Resistant     |
| * Easy to Use                | * Fast Drying        |
| * Water Based                | * Use over Acrylics  |

### Uses

For interior and exterior surfaces.

- \* Woodwork
- \* Cabinets
- \* Concrete Floors
- \* Walkways
- \* Pavers
- \* Patios

**Package Size:** 128 oz. Kit  
Part A = 117 oz.  
Part B = 11 oz.

**Surface Preparation:** Clean the floors to be coated by removing any oil, grease, or other contaminants that might interfere with the proper adhesion of the Two Component Urethane Sealer. Ensure that floors are structurally sound and fully cured a minimum of 28 days. Test the floor for vapor drive in accordance with ASTM D4263. Mechanical profiling is the preferred floor-preparation method. Mechanically profile the floor to a medium-grit sandpaper texture and remove curing and parting compounds and other surface hardeners and floor coatings. Acid may be used to etch bare concrete floors to the proper profile

when mechanical abrasion is impractical. Make sure the surface is thoroughly clean before etching. Etch all unpainted cement with 1 part 10% muriatic acid to 1 part water. Allow to stand 10-15 minutes then rinse clean with water. After etching, neutralize acid with baking soda or soda ash then rinse thoroughly with water. A properly etched concrete surface should resemble the texture of fine or medium sandpaper. Let dry thoroughly before applying coating.

**Test area:** Apply a test area to ensure proper appearance and adhesion.

**Application Specifics:** Important weather guidelines:

1. Apply on warm, clear, sunny days.
2. Do not apply under foggy conditions.
3. Do not apply when rain is forecast within 24 hours.
4. Do not apply if temperatures are expected to drop below 50°F within 24 hours.
5. Apply 2 thin coats for best results.  
(Use 1/4" or 3/8" nap roller cover).

**Coverage:** May be rolled, brushed or sprayed. The coverage will vary with surface porosity and profile. You can expect up to 400 square feet per gallon on a smooth surface and between 250 to 350 square feet per gallon on a rough surface. For best results apply two thin coats.

**Application:** Brush, roll or spray. **DO NOT SHAKE.** Shaking will cause air bubbles. Stir gently and thoroughly before application. This product appears milky when wet, but dries rapidly to a beautiful clear coating.

**IMPORTANT:** Do not apply late in the day or when dew, rain, fog or mist is likely (moisture will damage the fresh paint film). Apply at temperatures above 50 degrees F. Do not apply if temperatures below 45 degrees are expected within 24 hours. Cold weather or excess humidity or a sudden temperature drop

will greatly affect any finish at the time of application. Dampness can dull the gloss. Do not paint in direct sun. Use a clean brush or roller. For maximum durability, we recommend at least two thin coats.

**Drying Time:** Dries within 30 minutes and can be recoated in 4 hours. Ready for use in 12 hours. Drying time will vary with weather conditions, air circulation and temperature.

**Thinning:** Thinning is not recommended.

**Clean-up:** Clean tools and hands with warm soapy water and rinse thoroughly.

**Pot Life:** 24 hours. Product will not harden or solidify due to end of pot life. After 24 hours, product can be reactivated by introducing Part B at proper mix ratio of 10:1 or 11:1.

#### **FILM PROPERTIES**

Drying time: (70°F, 50% RH)

|                                   |                       |
|-----------------------------------|-----------------------|
| Set to touch                      | <15 min               |
| Tack-Free                         | <20 min               |
| Dry Hard                          | <30 min               |
| Reverse Impact                    | =10 FT-LB             |
| Taber Abrasion 1000gm/1000 cycles | 4% weight loss        |
| 600 Gloss (ASTM D-1308):          | >90                   |
| Tensile Strength ASTM D-412       | 6000 lbs per sq/in    |
| Elongation ASTM D-412             | 40%                   |
| Adhesion:                         |                       |
| Dry Tape Test (ASTM D-3359)       | 5A                    |
| Wet Tape (24 hr/70°F)             | 5A                    |
| Wet Tape (4 days/70°F)            | 5A                    |
| Weathering:                       |                       |
| QUV - "B Bulb" (1000 hr)          |                       |
| (ASTM D-4587-91)                  | >92% gloss retention, |
| 1.6 Delta E color change          |                       |

#### **PHYSICAL PROPERTIES**

|                          |                      |
|--------------------------|----------------------|
| Solids content by weight | 32-34%               |
| Solids content by volume | 31-33%               |
| Maximum V.O.C.           | <100 grams per liter |

#### **CHEMICAL RESISTANCE**

|                             |           |
|-----------------------------|-----------|
| 4 hour spot test            |           |
| 50% NaOH (Sodium Hydroxide) | No Effect |
| 10% Acetic Acid             | No Effect |
| 30% NH3 (Ammonia)           | No Effect |
| MEK                         | Softening |
| Xylene                      | No Effect |
| Brake Fluid                 | No Effect |

#### **RESISTANCE PROPERTIES**

(per ANSI/KCMA A161.1-1990)Test 9.3.2.

|                           |                  |
|---------------------------|------------------|
| 24 Hour Tests             |                  |
| Vinegar                   | No Effect        |
| Lemon Juice               | No Effect        |
| Orange Juice              | No Effect        |
| Grape Juice               | No Effect        |
| Tomato Catsup             | No Effect        |
| Coffee(115°F)             | No Effect        |
| Olive Oil                 | No Effect        |
| 100 Proof Alcohol         | No Effect        |
| One Hour Test:            |                  |
| Mustard                   | No Effect        |
| Hot and Cold Check Cycles | Passes 10 cycles |

#### **ADHESION CHARACTERISTICS**

(1.0 mil dry films air dried seven days)

|                             |           |
|-----------------------------|-----------|
| Masonry                     |           |
| Concrete                    | Excellent |
| Stucco                      | Excellent |
| Plaster                     | Excellent |
| Mortar                      | Excellent |
| Metal                       |           |
| Untreated Cold Rolled Steel | Excellent |
| Bonderite 100               | Excellent |
| Bonderite 1000              | Excellent |
| Tin Plate                   | Excellent |
| Untreated Aluminum          | Excellent |
| Anodized Aluminum           | Excellent |
| Plastic                     |           |
| Polycarbonates              | Excellent |
| High Density Polyethylene   | Excellent |
| ABS                         | Selective |
| Nylon                       | Selective |
| Flexible Vinyl              | Selective |