AFM safecoat®

Building A Healthier World

AFM SAFECOAT TWO COMPONENT ALIPHATIC URETHANE

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
* Stain Resistant
* Repels oil, grease & water
* Easy to Use
* Water Based
* Chemical resistant
* Non-Yellowing
* U.V. Resistant
* Fast Drying
* 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 50oF 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.	15 g/l

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