



Technical Data Information

A-1325 Concrete Seal – Matte Finish

Acrylic Urethane

Description

A-1325 is a premium quality crystal clear acrylic urethane that provides a tough, durable surface.

Advantages

- Abrasion resistant
- Chemical resistant
- Stain Resistant
- Non Yellowing
- Repels oil, grease & water

Uses

- Interior or exterior surfaces
- Concrete Floors
- Walk ways
- Patios
- Pools
- Pavers
- Brick Walls
- Wood

Finish

- A-1325 Matte Finish
- Package Size: 1Gallons & 5 Gallons
- Color: Clear

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 A-1325 Acrylic Urethane. 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).

Do not apply in direct sun light over 75 degree.

Coverage

A-1325 Acrylic Polyurethane Top Coat 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. A-1325 can be thinned with up to two parts of water.

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 12 hours. Drying time will vary with weather conditions, air circulation and temperature.

Thinning

Thinning is not recommended. A-1325 can be thinned with up to two parts of water.

Clean-up

Clean tools and hands with warm soapy water and rinse thoroughly.

TECH DATA FOR 1300

CHEMICAL RESISTANCE

(1.0 mil dry films on cold rolled steel, air dried 7 day)

Toluene, 1 hour immersion	No Effect
Gasoline, 1 hour immersion	No Effect
1 N NaOH, 1 hour spot test	No Effect
Solvent Resistance (ASTM D-4752):	
MEK (100 double rubs)	Pass
Toluene (100 double rubs)	Pass
Mandrel Bend Flexibility,(ASTM D-1737)	1/8 in
Cleveland Cabinet Humidity Resistance (100F, 100% RH,700 hours)	
Blistering (ASTM D714)	Few, #8
Loss in Gloss	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	Selective
ABS	Selective
Nylon	Selective
Flexible Vinyl	Selective

PHYSICAL PROPERTIES

Solids content by weight	31-33%
Solids content by volume	30-32%
Maximum V.O.C.	250 grams per liter

FILM PROPERTIES

Drying time: (70°F, 50% RH)	
Set to touch	< 15 min
Tack-Free	< 20 min
Dry Hard	< 30 min
Pencil Hardness	HB
Direct Impact	>160
Reverse Impact	> 160
Taber Abrasion	50.5 mg
60° Gloss (ASTM D-1308):	> 90
Contrast Ratio (ASTM 2805):	> 90

Adhesion:

Dry Tape Test (ASTM D-3359)	5A
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Dry Scrape Adhesion (ASTM D-2197)	9 kg
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
Xenon Arc (1000 hr) (ASTM G-26-92)	>94% gloss retention
Heat Resistance (24 hr/250°F)	<2.0 Delta E color change

CHEMICAL RESISTANCE (ASTM D-1308)

Hydraulic Fluid (24 hr/150°F)	Pass
Acid, 5% H2SO4 Spot, pH=0.6	No effect after 24 hr
Base, 5% NaOH Spot, pH= 13.5	No effect after 6 hr
Water Immersion (24 hr/70°F)	Pass

5 Minute Spot Test

Gasoline (87)	OK
Diesel Fuel	OK
Brake Fuel	Dissolve
Skydrol	Softening**
Xylene	OK*
10% Acetic Acid	OK
10% HCL	OK
Methanol	OK*
Ammonia	OK

1Hour Spot Test

Gasoline (87)	OK
Diesel Fuel	OK
Brake Fuel	Dissolve
Skydrol	Softening**
Xylene	OK*
10% Acetic Acid	OK
10% HCL	OK
Methanol	OK*
Ammonia	OK

* Loss of Gloss

**Softening and Yellowing

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This product contains chemicals known to the State of California to cause cancer, birth defects and reproductive harm. The maximum V.O.C. of this product does not exceed 250 grams/liter. **WARNING!** If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC.** Contact the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.