



Urocel 65

2 component Aliphatic Urethane

Product Description

Urocel 65 is a high solids chemical resistant two-component saturated polyester aliphatic urethane coating having exceptional resistance to most chemicals and excellent anti-soil properties. Displays excellent gloss retention on extended exterior exposures.

Recommended Uses

Use as a decorative and protective finish coat for metal, wood, and concrete in severe industrial, marine and process environments. Very good in environments exposed to acids, alkalis, salts and solvents. Recommended in heavy industrial and marine atmospheres where long maintenance free life is required. Use as a sealer (clear) to protect and provide depth of gloss for urethane coated transportation equipment. Especially useful on floors in such areas as aircraft hangers, service bays, and warehouse floors where light reflectance, chemical and abrasion resistance are required. Because of **Urocel 65's** high crosslink density and non-toxic cured state it is an acceptable coating for food and beverage process plants and hospital facilities.

Physicals	Volume Solids	65%		
	VOC	3.21 lbs./gal.		
	Weight/gal.	8 lbs.		
	Temp. Res.	250°F		
Color/Gloss	Color	Clear, Std. Colors, Custom		
	Sheen	Gloss & Satin		
Recommended Thickness	10 mils wet--6.5 mils dry			
Theoretical Coverage	160 sq. ft./gal.			
Method	Brush, roller, spray			
Induction Time	none			
Thinner	Urethane Lacquer Thinner			
Drying Time (hrs)	50°F*	75°F*	90°F*	
	• to touch	4	2	1
	• to handle	8	4	2
	• to recoat (max.)	12*	8*	6*
	• Pot Life	24	12	4
* @ 50% relative humidity, higher humidity will require shorter recoat times.				
Unit Size	1 Gallon Unit		5 Gallon Unit	
	Part A	1 Gallon (short filled)		5 Gallon (short filled)
	Part B	1 Quart (short filled)		1 Gallon (short filled)

Storage Shelf Life One year minimum from mfg date.

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Consult Pilgrim representative for system best suited to environment.

Limitations:

Apply in good weather when air and surface temperatures are above 40°F. For optimum application properties, bring material to 70-80°F temperature range prior to mixing and application.

Surface Preparation:

Paint only clean dry surfaces. Remove all grease, oil, dirt or other foreign matter by solvent or detergent washing.

Unpainted Surfaces:

Prepare surface and prime, seal, fill or otherwise coat.

Previously Painted Surfaces:

Remove all rust, rust scale, other corrosion products, loose or heavy chalk and loose or scaling paint by "Hand or Power Tool Cleaning" (SSPC-SP2 or 3 respectively). "Sand or Brush Blast" (SSPC-SP7) any glossy areas until dull. Spot prime bare areas as recommended. To check compatibility apply coating to representative area of at least 25 sq. ft. and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility present. Coating with **Urocel 65** can then proceed.

Concrete:

(1) "Brush-Blast Cleaning (SSPC-SP7) can be used to prepare the concrete by removing all foreign matter and provide tooth for bonding. Remove all dust from surface before starting the application of the coating. Modern B1 is recommended to prime and seal concrete.

(2) "Acid-Etching" All surfaces shall be acid etched with Muriatic Acid solution (1 part acid to 2 parts water). Apply solution by brush or spray until surface is thoroughly wetted. When bubbling ceases (5-10 minutes), wash down surface with fresh water and scrub with a stiff brush. Rinse with plenty of fresh water. If surface is acidic (ph below 7), neutralize surface by washing with 1-2% ammonia solution.

Mixing:

Material is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied. Combine entire contents of Part B with Part A and mix thoroughly with a power agitator.

Thinning:

Material is supplied at application viscosity and normally needs no thinning. If thinning is necessary thin with Pilgrim Thinner up to one pint/gallon.

Application:

Apply by brush, roller, or spray. Apply at 10 mils wet.

Equipment:

Brush: Good quality 4" wide brush with short hair bristle.

Roller: 1/8" mohair or Dynel roller.

Conventional Spray: DeVilbiss MBC-510 gun; E tip and 704 air cap; 3/8" ID material hose; double regulated pressure tank with oil and moisture separator.

Work Stoppages:

Do not allow material to remain in hoses. Release pressure from pressure tank and disconnect material hose. Thoroughly flush hose and spray gun with #5 Cleaner.

Cleanup:

Clean all equipment immediately after use with Pilgrim #5 Cleaner or PM Acetate. Spray equipment requires flushing with either of these solvents. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency should depend upon amount sprayed, temperature, elapsed time including delay, etc.

Welding:

In the event welding or flame cutting is performed on metal coated with this product, do so in accordance with instructions in ANSI/ASC Z 49.1, "Safety in Welding and Cutting." All welded, burned, or otherwise damaged areas should be reprepared to base metal and recoated as specified.

Safety:

This product (and any recommended thinners) contains solvents and/or other chemical ingredients. Adequate health and safety precautions should be observed during all storage, handling, use and drying periods. For safe usage, user is specifically directed to consult the current "Material Safety Data Sheet" for this product. When using this product in a confined space or closed area, consult the current OSHA, or ANSI bulletins on safety requirements.

Physical Performance Properties of Urocel-65 - Dry Film

Tests conducted on 1.5 mil films, air dried for seven days at room temperature.

Hardness		
Pencil		3H
Taber Abrasion (mg loss per 1000 cycles, CS-17 wheel, 1000g load)		39.4
Impact resistance, in. lbs		
Direct		50
Reverse		10
QUV weatherometer		
Oxidation		no effect
Loss of gloss		no effect
Blistering		no effect
Yellowing		no effect
Crosshatch adhesion		
Untreated cold rolled steel`	5B	
Polycarbonate		5B
ABS		OB
PVC		OB
Film Properties		
Tensile strength, psi	5600	
Elongation, %		150

Chemical and Solvent Resistance

Skydrol B-4	No Effect
Hydraulic Fluid	No Effect
25% Nitric Acid	Blistered
37% Hydrochloric Acid	Blistered
50% Sulfuric	Down Gloss
50% Sodium Hydroxide	No Effect
10% Acetic Acid	No Effect
30% NH ₃ OH	No Effect
Gasoline	No Effect
MEK	Slight Swelling
Xylene	No Effect

