



# Urocel

2 component Aliphatic Urethane

## Product Description

UROCEL is a 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's high crosslink density and non-toxic cured state it is an acceptable coating for food and beverage process plants and hospital facilities.

<b>Physicals</b>	Volume Solids	42.5%
	VOC	4.31 lbs./gal.
	Weight/gal.	8 lbs.
	Temp. Res.	250°F
<b>Color/Gloss</b>	Color	Clear, Std. Colors, Custom
	Sheen	Gloss & Satin

<b>Application</b>	Recommended Thickness (min.)	1.9 mils dry, 4.5 mils wet
	Theoretical Coverage	1.9 mils DFT 355 sq. ft.
	Method	Brush, roller, spray
	Induction Time	none
	Thinner	PRS-Thinner

<b>Drying Time (hrs)</b>	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.

<b>Unit Size</b>	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)

<b>Storage</b>	Shelf Life	One year minimum from mfg date.
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### PILGRIM PERMOCOAT

Main office and factory: 402 S. 22nd Street, Tampa, FL 33605 (813) 248-3328 FAX# (813) 248-1076  
Distribution : USA, Canada, Caribbean

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 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. Pilgrim AquaPrime or 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 PRS Thinner up to one pint/gallon.

**Application:**

Apply by brush, roller, or spray. Apply at 3.5 mils wet.

**Equipment:**

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

Roller: 1/8" mohair or foam 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.

**Important !** PILGRIM makes no warranty whether expressed or implied, including warranties of fitness for a particular purpose of these products. Under no circumstances shall PILGRIM be liable for incidental, consequential or other damages from alleged negligence, breach of warranty, strict liability or any other theory, arising out of the use or handling of these materials. The sole liability of PILGRIM for any claims arising out of the manufacture, use or sale of its products shall be for the buyers purchase price.

## Physical Performance Properties of Urocel - 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<sub>3</sub>OH No Effect

Gasoline No Effect

MEK Slight Swelling

Xylene No Effect

