



Urocel 103

High Traffic Urethane

PRODUCT DESCRIPTION

Urocel 103 is a high performance high solids resin, using a proprietary blend of polymers for a broad range of industrial flooring applications.

Urocel 103 cures to a satin finish and is UV stable, with high abrasion resistance, making it perfect for both interior and exterior applications.

TYPICAL USES

Urocel 103 is used as a high traffic urethane topcoat for areas requiring high abrasion resistance and UV stability.

A high traffic urethane is recommended in manufacturing plants, distribution warehouses, automotive facilities, facility maintenance rooms, aircraft hangars, restrooms, offices, etc.

PHYSICAL CHARACTERISTICS

Mix Ratio (A:B, V:V): Mix full kits only

Viscosity (ASTM D2196 cPs): 400

Density (ASTM D1475, lbs/gal): 9.33

Tensile Strength (ASTM D638, psi): 3,200

Pot Life (75° F, 50% RH): 104 min.

Cure Time (75° F, 55% RH): 24 hrs light foot traffic, 3 days medium duty traffic, 7 days full service.

Shelf Life: Unopened containers Part A = 1 year, Part B = 1 year, stored at 73° F

Volume Solids (%): 92%

VOC (g/l): 80

Flashpoint (ASTM D3278): >200 for Parts A & B

Shore D Hardness (ASTM D2240): 76

Taber Abrasion (ASTM D4060): 10

DOT Classification Part A: Not regulated

DOT Classification Part B: NA 1993 Combustible liquid, N.O.S. (DIPROPYLENE GLYCOL METHYL ETHER), Class C, Packing Class III, Labels 3

PROPERTIES

- Excellent abrasion resistance, UV stability and resistance to staining and chemicals, such as acids, alkalis, and solvents
- Low VOC
- High solids
- UV stable
- Excellent color stability
- High abrasion resistance
- Seamless
- Nonporous
- Durable and low maintenance
- Satin finish appearance

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SURFACE PREPARATION

When applying Urocel 103, it is necessary to first sand the previous coat with 60 grit sandpaper prior to application. If following a different application schedule, please contact your Pilgrim representative.

APPLICATION OF MATERIALS

Size the batches and mix according to manufacturer's instructions. The entire batch should be laid using a "dip & roll" technique, working quickly and diligently. If pigment is required, mix pigment into Part A prior to mixing with Part B. Use a variable speed drill equipped with a Jiffy mixing blade; mix on low speed until evenly dispersed. Once fully blended, mix A & B until well blended for a minimum of two minutes. Scrape sides of mixing bucket with paint stick or spatula to help insure thorough blending of Parts A and B. Add Part C and mix thoroughly.

If no pigment is required, mix 1 unit Part A with 1 unit Part B. Using a variable speed drill equipped with a Jiffy mixing blade; mix on low speed until well blended for a minimum of two minutes. Scrape sides of mixing bucket with paint stick or spatula to help insure thorough blending of Parts A and B. Add Part C and mix thoroughly.

Apply Urocel 103 mixture to floor immediately by using a 9" or 18" wide ½" nap paint roller at a rate of 475-500 sq. feet/gallon. Lightly cross roll perpendicular to the initial spread to a uniform finish. Lightly back roll parallel to the initial spread direction using the 18" roller. Use a brush in areas inaccessible to a roller.

Application temperature should be between 50° F and 90° F. Substrate temperature must be a minimum of 5° F above dew point. This product should be applied between 25%-80% relative humidity. Application of the coating above the recommended dry film thickness or at relative humidity above 80% may cause bubbles and or micro-bubbles to form in the coating. Application in relative humidity below 25% will inhibit curing.

Use Pilgrim #5 Cleaner, xylene, acetone, etc. for cleaning tools and equipment soon after use. Do not use solvents on hands or other parts of body. Clean hands and other exposed areas with soap and water.

STANDARD PACKAGING

1 gallon kit (1 gallon pail Part A, 1 quart can Part B, 1 quart can Part C)

Pigment: 1 quart can (mix 1 pint: 1 gallon kit)

STORAGE CONDITIONS

Store material in a cool and dry place out of direct sunlight. Material should be stored between 70° F and 90° F. Do not store near open flame or ignition source. Once opened, this material cannot be re-sealed for later use. Read and understand all product labels and Safety Data Sheets (SDS) prior to use.

CAUTION

Workers should wear protective clothing, eye protection, and impermeable gloves. If allowable exposure limits are exceeded, organic vapor respirators should be worn. All on-site personnel should become familiar with the SDS and appropriate system specification in order to increase hazard awareness.

WARRANTY

Pilgrim Permocoat Inc. warrants that materials shipped to buyers are free of any defects in material or workmanship according to Pilgrim's published data if used in accordance with Pilgrim's specified application procedure. Pilgrim Permocoat Inc. shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended, and in accordance with Pilgrim's application guidelines.

This product is sold by weight, not by volume. Product properties require that containers provided are not completely filled. See price sheet for actual container weight and volume.

Note: This product data sheet was prepared as a general guide only. Please contact your local Pilgrim Representative or our Technical Service department for assistance prior to any application.