313 Urethane

INSTACOAT PREMIUM PRODUCTS

Description

IPP Urethane 313 is a two-component aliphatic urethane, flexible polyester type, finish coating for exterior applications.

Features

- Extreme flexibility and toughness
- Excellent erosion resistance
- UV stable for extended weathering
- Good chemical resistance
- Excellent adhesion to a variety of substrates

Uses

IPP Urethane 313 is especially useful where a highly flexible and durable coating is needed. It can be applied over a wide variety of properly prepared and primed substrates including structural steel, cold rolled steel, aluminum, concrete, plastics and galvanized steel. In some cases it is self priming, but it is generally used as a topcoat. IPP Urethane 313 has been used for a large variety of applications from shoe insoles to weather balloons and dirigibles.

Surface Preparation

METAL SURFACES should be cleaned of oil, grease and dirt. To obtain optimum results, the metal should be sandblasted and primer applied then top coated with IPP Urethane 313. When painting over previously painted surfaces a spot test should be made to check for lifting, or incompatibility with the old coating. Dirt and loose paint should be removed by suitable method and spot primed before application of finish coat. It is extremely important that this surface is free of all moisture prior to coating application or blistering of paint film may occur. See also the product information bulletins on the above primers. PLASTICS must be free of mold release compounds, oils and other surface contaminates. Test plastic substrates to be sure solvents contained in IPP Urethane 313 will not attack the substrate, especially after post-forming operations.

Application

IPP Urethane 313 can be applied immediately after mixing two components. However, thorough mixing of the two components is important. Mechanical mixing is preferred at slow speed to avoid air entrapment. This coating may be applied by spray (air or airless), brush or roller (close nap). Do not apply if the temperature is within 10°F of the dew point to prevent condensation and potential down glossing. If using conventional air-atomizing spray equipment, we recommend a general industrial HVLP spray gun with a 1.6 - 1.8 mm tip. If using airless spray, we recommend 2000 - 2200psi with a 12" pattern and .017" tip. If application is by spray method suitable protective vapor/particulate respirators should be worn by all personnel in the area. In poorly ventilated enclosed areas or when airborne concentrations exceed TLV (ceiling) for HDI, a fresh air supplied mask should be worn. In all cases, observe OSHA regulations for respirator use (29CFR1910.134) whenever a respirator is used. See also product material safety data sheets. Spray equipment must be equipped with properly working vapor traps and air supply must be dry.

Colors

Available in standard full gloss colors and clear. Special colors and gloss can be matched upon request.

Packaging

One and five gallon kits.

Test Results	
Tensile Strength (ASTM D2370)	5300 psi
Elongation (ASTM D2370)	140%
100% Modulus (ASTM D2370)	3700 psi
Pencil Hardness (ASTM D3363)	2h
Impact Resistance (ASTM D2794)	160 in. lbs. Direct and Reverse
MEK Double Rubs ASTM (D5402)	200 no effect

Physical Data	
Recommended DFT (Dry Film Thickness)	2 to 4 mils per coat
Theoretical Coverage @ 2 mils DFT	500 sq. ft. per gallon
Dry Time @ 70° F, 50% R.H.	To Touch: 4 – 6 hrs Mar Free: 10 – 12 hrs Full Cure: 3 – 5 days
Pot Life @ 70° F, 50% R.H.	6 hrs
Application Temperature	25° F to 90° F
Service Temperature	-40° F to 250° F
Thinner	CFI 711 or CFI 735
Mix Ratio by Volume	3 parts A to 1 part B
Shelf Life	Part A: 2 yrs unopened Part B: 1 yr unopened
VOC	2.68# / Gal. (321 gms/L

877-552-6724 | www.sprayrubber.com

44648 Mound Rd. Ste. 104 Sterling Heights, MI 48317