P-WU: WATER BASED POLYURETHANE COATING SYSTEM

TECHNICAL DATA SHEET

DESCRIPTION

P-WU is a two component waterborne polyurethane coating system. It provides outstanding appearance, good chemical and resistance as well as excellent physical properties.

PRIMARY APPLICATIONS

- Grocery and department stores
- Hospitals and healthcare facilities
- Museums, banks and institutional structure
- Offices and government buildings
- Schools, colleges and universities
- Commercial and general service industrial environments

ADVANTAGES

- VOC level : 31 g/L
- Fast dry speed
- Early water resistance
- Long pot life
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate
- Superior chemical resistance
- Superior U.V. resistance
- Outstanding appearance

TECHNICAL DATA

	PART A	PART B	MIX
COLOR	Upon request	Amber	Upon request
RECOMMENDED THICKNESS	P-WU : 4-6 mils (400 – 600 ft²/gal)		
SHELF LIFE	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.		
MIX RATIO, BY VOLUME	A : B = 4 : 1 : 1 (water)		
MIX RATIO, BY WEIGHT	A : B = 100 : 25.7		
POT LIFE 16 OZ (454 G)	1-3 hours @ 77°F (25°C)		

PROPERTIES
@ 73°F (23°C) AND 50% R.H.

	PART A	PART B	MIX
SOLIDS CONTENT, BY VOLUME	60 - 70%	60 - 70%	60 - 70%
SOLIDS CONTENT, BY WEIGHT	60 - 70%	60 - 70%	60 - 70%
DENSITY (KG/L)	1.04	1.07	-
THINNER RECOMMENDED	Water		
RECOAT WINDOW	4 - 6 hours		
PEDESTRIAN TRAFFIC	12 - 24 hours		
NORMAL TRAFFIC	24 - 48 hours		
HEAVY EQUIPMENT TRAFFIC	>72 hours		
ABRASION RESISTANCE, ASTM D4060 TABER ABRASER CS-17 WHEEL / 1000 G / 1000 CYCLES	0.3 g loss		
WATER ABSORPTION, ASTM D570	1.5 %		
HARDNESS (SHORE D), ASTM D2240	70 - 75		
VISCOSITY @ 77°F (25°C) (ZAHN CUP #4 , SECONDS)	18 - 22		
BOND STRENGTH, ASTM D4541	>300 (substrate ruptures)		
IMPACT RESISTANCE: DIRECT / REVERSE (LBS), ASTM D-2794	16 / 22		

PROPERTIES
@ 50°F (10°C) AND 50% R.H.

FLASH POINT	>230°F (110°C), PMCC, mixed
CLEAN UP	Water
REDUCER	R8K10, up to 10% as needed

IMPORTANT NOTES

- The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.
- The indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity.

SURFACE PREPARATION

The surface must be sound and clean. Remove any dust, grease, oil, dirt, curing agents, wax, foreign substances and disaggregated substances by sanding or by other approved methods. Standing water must be removed from the surfaces but if primer is applied, the surface can be damp. Porous surfaces may require multiple priming.

MIXING

Materials should be pre-conditioned to a minimum of 50°F (10°C) prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A using the proper mixing ratio of A:B = 4:1 by volume, then fill the part B metal can with water and add it to the mix. Mix components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

APPLICATION

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

CLEANING

Clean all tools and materials with soapy water followed by a solvent rise. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 50°F / 86°F (10°C / 30°C)
- Maximum relative humidity during application and curing: 80%
- Substrate temperature must be 5.5°F (3°C) above dew point measured
- Humidity content of substrate must be < 4% when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during application
- Avoid exterior use on substrates at ground level
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period
- Surface may discolor in areas exposed to regular ultraviolet light

HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

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