PLEXI-CHEMIE

PRODUCT DATA SHEET

606-6 Lane Avenue North • Jacksonville, FL 32254 • Tel. (904) 693-8800 • Fax (904) 693-8700 • www.plexi-chemie.com

PLEXI*CREST* P
Polyurethane Gloss Finish
CRU (Chemical Resistant Urethane)

DESCRIPTION

Plexi*Crest* P is a two-component, high performance, aliphatic protective polyurethane coating system, designed to be used as a final topcoat over Plexi-Chemie epoxy systems. The finished system displays exceptional chemical, abrasion and water resistance, while the hard slick film is easy to clean. **Plexi*Crest* P** has outstanding gloss, excellent weathering characteristics and exceptional UV resistance, providing extended service life without the VOC concerns experienced with conventional urethane coating systems.

TYPICAL USES

Aircraft Hangers
Aviation and Automotive Maintenance Areas
Truck/Automobile Repair/ Maintenance Bays
Laboratories
Manufacturing Plants
Clean Rooms
Machine Shops
Restrooms
Warehouses
Pharmaceutical Facilities
USDA Inspected Facilities
Traffic Aisles
Loading Docks
Chemical Storage Facilities
Healthcare Facilities/Hospitals

PRODUCT ADVANTAGES

- Exceptional chemical, abrasion and UV resistance
- Excellent Wear
- VOC Compliant
- Impact and Stain Resistant

LIMITATIONS

1. Apply coating only when surface temperature is more than 5°F above the dew point temperature of the surrounding air and the relative humidity must remain below 85%. This 5°F differential is necessary to prevent condensation or moisture on the surface.
2. Apply this coating system only when the temperature of the ambient air and the receiving surface is between 50°F and 90°F.
3. Slab on grade requires a vapor/ moisture barrier.
4. When necessary, adequate ventilation shall be provided and proper clothing and respirators worn.
5. Do not install in open areas during rain.

SURFACE PREPARATION

Good surface preparation and cleaning of the substrate is essential to a satisfactory coating system. All surfaces to be coated should be dry, clean, and free of all contaminants.

CONCRETE: Mechanical methods should be utilized to remove laitance, old paints and protective coatings. Surfaces should be free of oil, grease, water, and other contaminates that may inhibit bonding. This can be achieved by chemical cleaning. Use of abrasive blast, high-pressure water blast is acceptable to obtain uniform sound substrate. All cracks and control joints should be repaired and/or filled with an epoxy paste.

MIXING

Plexi*Crest* P pigmented is a two-component coating supplied in two separate containers. Part A (base) material should be thoroughly mixed with mechanical agitation. Pour contents of Part B into Part A while under light agitation and stir well for 1-2 minutes prior to application. No

induction time is required, just thorough mixing of the mixed materials. The coating should be kept covered at all times after mixing and during application to prevent contamination. Usable pot life depends on the temperature of the material but will be about 3 hours @ 70°F. NOTE: This material is moisture sensitive. Any introduction of moisture or water into the material during mixing will shorten usable pot life drastically.

THINNING
Plexi*Crest* P, when mixed, should be ready to apply. Minimal field thinning for application should be required. If thinning is required, use only the recommended thinners. If thinning is necessary, thin up to approximately 10% maximum per gallon with Thinner 101.

APPLICATION
Apply Plexi*Crest* P over any Plexi-Chemie epoxy flooring system. See the specific data sheets for the preparation and application of these products and systems. Pour Plexi*Crest P* as a ribbon and distribute with a notched squeegee and back roll with shed and solvent resistant 3/8th inch roller cover. Apply at 300 to 400 square feet per gallon depending on project and mil thickness required. Always pour into the previous coating to minimize lap lines.

RECOAT WINDOW
It is always recommended to sand, screed, vacuum and tack wipe to remove any surface dirt or debris. Use a clean, lint free rag or towel with Xylene. Allow solvent to evaporate before recoating. This procedure will help avoid window recoat issue and avoid intercoat adhesion failure. It is recommended to recoat between 10 and 14 hours of the previous application coating. If recoating earlier, test insure surface is dry to touch, a thumb or key print. Wear protective shoes. If wearing spikes, surface should be sufficiently cured to avoid marking or damaging surface.

SAFETY
Always read and follow label, data sheet and material safety data sheets. MSDS are available from Plexi-Chemie and should be consulted prior to use of the product. These products are intended for use by professionals only. Keep away from children and those not trained in the use and potential hazards involved. Workers should wear gloves, goggles, respirators and body covering clothing during mixing and application. Clean with soap and water.

COLOR
PlexiCrest P is available in a clear gloss, pigmented and clear flat options.

Product Characteristics:

Material Type	Modified Polyurethane
Solids Content	75% by Volume
Number of Coats	One @ 3.6 mils DFT
Application Method	Squeegee, Roller, Brush, Airless Spray (Large Areas)
Clean-up Solvent	MAK, MIAK, MIBK
Shelf Life at 75°F	Three years from date of manufacture, unmixed
Dry Time at 75°F	4 hours tack free; 24 hours hard; 7 days full cure/chemical resistant
Temperature Limits	300°F intermittent dry heat
Pot Life	3 hours @ 70°F (24°C)
Mixing Ratio	2 to 1 by volume
Freight	Paint, Flammable Liquid, UN1263

Physical Property	Test Method	Result
Impact Resistance	ASTM D-2794	>160 in. -lb
Percent Solids by Weight	ASTM D-2369	Part A: 100% Part B: 70% A+B = 93.5%
Adhesion	ASTM D-4541	550 psi Substrate failure
Hardness	ASTM D-3363 ASTM D-2134	>4H >40
QUV	UVB-373/1500 hrs.	10%
Flame Spread/NFPA-101	ASTM E-84	Class A
Elongation	ASTM D-2370	7%
Tensile Strength	ASTM D-2370	9,000 psi
Coefficient of Friction	ASTM D-695 James Friction Tester	0.65
Abrasion Resistance CS17 wheel (1000 g load) 1000 cycles	ASTM D-4060	12.0 mg/loss
Volatile Organic Compounds (VOC)	ASTM D-3960	0.05 (6 g/l)

For additional information regarding chemical resistance, please contact the Plexi-Chemie Technical Department.