

Product Data Sheet For:

PlexiCrest XP
Polyaspartic (Ester) Urethane Coating

DESCRIPTION

PlexiCrest XP Polyaspartic (Ester) Urethane, clear or pigmented, is a state of the art high solid, no VOC's (Volatile Organic Compound), aliphatic polyurea that was developed for UV stable (colorfast) polyurea flooring applications as a primer, body coat, grout coat, top coat or a standalone coating. PlexiCrest XP can also be installed as a clear topcoat over a quartz or flake broadcast system. This new generation polyurea displays fast cure times and excellent adhesion characteristics. PlexiCrest XP is designed to be quick gelling (15 minutes) in order to optimize leveling and wetting properties. This state of the art polyurea elastomeric displays excellent chemical resistance, water insensitivity, and UV resistance (in any color) at a wide range of temperatures. PlexiCrest XP will provide a glossy, smooth finish when fully cured. Aggregate can be broadcast into this self-leveling material to provide a non-skid surface. PlexiCrest XP emits virtually no odors and can be applied indoors with minimal disturbance contributed to high V.O.C. levels found in most epoxies and polyurethanes. This product meets USDA and FDA specifications. PlexiCrest XP can be applied at temperatures as low as minus -20° F and as high as 85° F.

FEATURES

- ↪ VOC Compliant
- ↪ Excellent UV Resistance (non-yellowing)
- ↪ Fast Setting (within 20-30 minutes)
- ↪ High Gloss/ Water Clear Finish
- ↪ High Strength
- ↪ Greater Abrasion/Chemical/Impact Resistance
- ↪ Excellent Weatherability
- ↪ Good Resiliency/Can be pigmented
- ↪ One day install time
- ↪ High build thickness in one coat
- ↪ Forms excellent bond
- ↪ No out-gassing

AVAILABLE COLORS

- *Clear, most primary colors (including white)
- *Custom tinting available

PACKAGING / COVERAGE

10-gallon kit: 1 five-gallon pail of Part A and 1 five-gallon pail of Part B

TYPICAL PROCESSING PROPERTIES

Gel Time (75° F) Pot Life	15-20 minutes
Tack free time (75° F)	45 minutes
Open to foot traffic	2 hours
Volume Ratio	1A:1B

STORAGE

Material containers should always be stored indoors in a minimum temperature range of 68°F – 85°F (20° C – 29°C). The product has a shelf life of 1 year from the date of manufacture.

MIXING

Part A and Part B should be mixed individually before combining. Combine Part A and Part B, mixing thoroughly, using a mechanical mixer (Jiffy Mixer) at medium speeds. Mix for approximately 1 minute (DO NOT OVERMIX). Use care to scrape the sides of the container to ensure that no unmixed material remains. Use caution not to whip too much air into the material as this may result in pinhole blisters or shortened pot life. Do not mix more material that can applied in 10-15 minutes. Otherwise, material will start generating heat and accelerate the curing process; It will shorten the working time.

APPLICATION

PlexiCrest XP can be spread using a notched squeegee, brush or nap roller for the application. It should be noted that the thicker the application, the longer the curing process takes.

At 70°F (21°C) and 50% relative humidity, each coat needs to cure a minimum of 2-4 hours. Allow a

minimum of 4 hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian or auto traffic onto the finished surface. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or humidity extend the cure time.

EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

TYPICAL PHYSICAL PROPERTIES

Solids Content		90% solids
Tensile Strength, psi	ASTM D412	5000-8000
Hardness Shore D	ASTM D2240	70-75
Flexibility 1/8 th inch mandrel	ASTM D1737	Pass
Elongation	ASTM D412	30-50%
Viscosity, cp @ 75°	Mixed	350 EPS 400
Tear Strength	ASTM D624	350 psi
Taber Abrasion	ASTM D4060	22 mg
Gel Time	min @ 75°F	15-20
Initial Set Time	min @ 75°F	20-30
Mix Color	Clear	
Mix Ratio	1A:1B by volume	
Cure Time	1-2 hrs.	
VOC		30-40 g/L
Flammability		Self-extinguishing over concrete

This product contains isocyanate and curative material.

Notice: The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Plexi-Chemie Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

Before using any Plexi-Chemie product, be sure the Safety Data Sheet is read and understood.