



PLX008/03

Urethane Topcoat

Product Data

Description

PLX008 85% Solids Polyaspartic is a solvent based two component 85% solids polyaspartic aliphatic urethane clear coating. PLX008 has excellent chemical resistance, hardness, abrasion resistance, UV stability and has an excellent clear gardner color. The outstanding feature of this product is its exceptionally quick tack free time of around 1-2 hours for foot traffic.

Coverage Per Gallon Kit:

400 - 800 square feet per gallon at 2 - 8 mils wet

Packaging

1 1/2 gallon kits (net approximately)

3 gallon kits (net approximately)

Color

Clear

Gloss

>70 at 60 degrees

Shelf Life

Six Months unopened when properly stored

Features

Recommended for areas where a thin build clear coat is desired over a broadcast system and installation downtime is very limited. This product is suitable as a thin build coating and topcoat.

Where to Use

- garage floors
- auto service centers
- warehouses
- laboratories
- aircraft hangers
- cafeterias

Primer

Recommend a suitable primer and testing to determine suitability.

Topcoat

Not recommended

See full application instructions

Physical Data

Color	Clear, can be pigmented with appropriate colorant
Mix Ratio	Two to one by volume
DFT	2 - 8 mils
Finish	Gloss >70 at 60 degrees

Cure Schedule (70°F)

Pot Life	< 30-60 minutes (actual usable working time is approximately 15-20 minutes)
Tack Free	1-2 hours
Recoat or Topcoat	2-3 hours
Light Foot Traffic	1-4 hours
Full Cure	24-48 hours

Application Temperature

50-90 degrees F with relative humidity below 85%

Chemical Resistance

Chemical	Rating
Xylene	C
MEK	A
1,1,1 trichloroethane	B
Methanol	B
Ethyl Alcohol	B
Skydrol	C
50% sodium hydroxide	E
10% sulfuric acid	C
10% HCl (aq)	C
5% acetic acid	C

Rating key: NR - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: additional chemical resistance information is available through Plexicoat.

Typical Properties after 5 days

Abrasion Resistance

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 21 mg loss

Compressive Strength

12,000 psi @ ASTM D695

Tensile Strength

3,900 psi @ ASTM D638

Ultimate Elongation

2.4%

Hardness

Shore D=80

Viscosity

<1000 Centipose

Limitations

Due to the quick cure rate and dry time, it is suggested that the user obtain a sample and thoroughly evaluate the product before using.

Color stability may be affected by environmental conditions like high humidity/chemical exposure. Exposure to some types of lighting such as sodium vapor lights may cause discolorations.

Test Data based on neat resin.

Clarity of color may vary from batch to batch.

Substrate temperature must be 5°F above dew point.

Too thick of an application may result in surface imperfections, bubble generation or product failure.

Always apply a test patch to determine product suitability and adhesion performance for your proposed application method and procedures.

All new concrete must be cured for at least 30 days prior to application.

Do not expose this product to water until fully cured.

Physical properties are typical values and not specifications.

See reverse side for application instructions.

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PLX008 85% Solids Polyaspartic APPLICATION INSTRUCTIONS

PRODUCT STORAGE: Store product at normal room temperature before using. Storage should be between 60 and 90 degree F.

SURFACE PREPARATION: The most suitable surface preparation would be a brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

PRODUCT MIXING: This product has a mix ratio of two to one by volume. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the properly prepared surface.

PRIMING: A suitable primer should be used before applying this product. However, whether a primer is used or not, it is advisable to apply a test patch prior to using this product to determine if the adhesion characteristics are suitable for the service environment.

PRODUCT APPLICATION: The mixed material can be applied by brush or roller. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. This product is only intended for use as a thin build topcoat. Improper mixing may result in product failure. It should be pointed out that relative humidity can have a dramatic influence on the curing characteristics. The product will dry quicker and have less working time when the relative humidity is higher while a lower relative humidity will lengthen the dry time and working time.

RECOAT OR TOPCOATING: This material can be applied in multiple coats. If you opt to recoat this product, you must first be sure that the coating has tacked off before recoating. Always remember that colder temperatures will require more cure time for the product before recoating can commence.

CLEANUP: Use xylol

FLOOR CLEANING: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.