

Alliance Specialty Products

High Performance Polymers

ASP 221PA-85

Aliphatic Polyaspartic Urethane PRODUCT DATA SHEET

Product Description

ASP 221PA-85 urethane coating is a clear, fast curing, polyaspartic coating which exhibits excellent abrasion and staining resistance. 221PA-85 is an 85% solids material, used as a top coating at 4-6 mils over epoxy or urethane floors. It offers excellent advantages of gloss retention, UV resistance and low temperature cure.

Product Features

- Very good chemical resistance.
- Rapid curing, low odor.
- Excellent UV and abrasion resistance.
- Zero VOC
- First-rate clarity and high gloss retention.
- USDA approved for food handling facilities.
- Low temperature cure.

Uses

- Food Processing
- Aircraft Hangers
- Automotive Dealerships
- Anywhere exceptional UV and heat resistance is needed

Coverage

- 300-400 square feet per gallon yields 4-6 mils WFT.

Limitations

- Rapid cure, do not mix more material than can be applied in 20-25 minutes.
- Slab on grade requires moisture barrier.
- Substrate must be structurally sound, dry, and free of bond inhibiting agents.

Installation Guide

-Preparation

- Surface must be properly prepared, consult ASP Concrete Preparation Bulletin for details.
- If installed over an epoxy floor, prepare the floor by grinding or with a tack rag.

-Mixing

- Observe all precautions on the MSDS and label when using ASP products.
- Mix 2 parts resin, (part A), with 1 part hardener, (part B).
- Mix using a slow speed drill for at least 2 minutes.

-Application

- Apply with either a good quality, medium nap roller or a nylon or natural bristle brush.
- Mixed material may be poured onto properly prepared surface and distributed evenly using a squeegee.
- Cut in edges, door frames, and around machine legs with a brush.
- Back roll material with a medium nap roller.
- Do not allow material to puddle.
- Roll material to an even 4-6 mils.

-Cure

- Recoat: 6-24 hours at 70° F
- Abrade first coat using 60-80 grit paper/screen
- If recoat time is greater than 24 hours later, use 36 grit paper.
- Tack free: 60-90 minutes
- Human traffic: 4.5-6 hours.
- Full chemical cure: 3 days.

-Clean-Up

- Clean skin with soap and water.
- Use MEK or proprietary urethane thinners for equipment.

Properties

Composition:	Two component aliphatic, polyaspartic
Color:	Clear
Gloss: @ 60°	100
Weight/gal:	8.87lbs, mixed
Solids Content:	85%
Mix Ratio:	2A:1B by volume
Pot Life:	20 minutes at 70° F
Viscosity:	~250 cps, mixed
Tensile Strength:	7000 psi
Elongation:	5%
Adhesion to Concrete:	350 psi (concrete fails)
Hardness:	72 (Shore D)
Abrasion Resistance:	30mg loss -CS-17 wheel, 1kg load, 1000 cycles Service
Service Temperature:	175° F(immersion) 225° F(dry heat)

Packing

Unit	Part A	Part B
3 gal	1 x 2	1 x 1
15 gal	2 x 5	1 x 5

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Safety

- MSDS are available from ASP and should be consulted prior to use of this product.
- This product is intended for use by professionals only.
- Keep away from children and those not trained in the use of this product and the potential hazards.
- **221PA-85** is a two component urethane system. Part A contains urethane resin; part B contains polyamine urethane adduct.
- Workers should wear gloves and goggles when mixing or applying product.
- Clean up with soap and warm water.
- Be sure to follow all label and MSDS cautions.

Warranty

ASP warrants its products to be free of defects and conform to manufacturing standards for a maximum period of one year. ASP will replace the product or refund the purchase price at ASP's discretion. Buyer expressly waives claim to additional damages. Any warranty claim must be made in writing no later than one year from the noncomplying product's purchasing date. No one, including, but not exclusively, distributors, representatives, or applicators, may make modifications to the product data or warranty or extend any form of oral warranty on behalf of ASP.

Important Notice

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