Poly 98 Slow

Slow Cure
Aliphatic Polyaspartic

DESCRIPTION

Poly 98 Slow is a two-component, 100% solids, V.O.C. compliant, long working time aliphatic polyaspartic, developed for UV stable floor topcoats. It provides outstanding appearance, superior chemical, UV, and solvent resistance. It exhibits excellent physical properties.

ADVANTAGES

- UV-stable top coat
- Superior chemical resistance
- Superior weather and abrasion resistance
- Non yellowing and good gloss retention
- Easy to mix 1:1 ratio by volume
- Emits virtually no odors and can be applied indoors
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good
- bond to the substrate
- V.O.C. compliant in all 50 states and Canada

PRIMARY APPLICATIONS

- Marine protection for fiberglass, steel, concrete or wood
- Aircraft hangar floors
- Low temperature equipment
- Maintenance facilities
- Offshore platforms
- Industrial shop floors
- Car washes or wash bays
- Secondary Containment
- Cooling towers
- Bridges
- Wastewater treatment applications

Technical Data

Packaging	7.57 L (2 US gal.) and 37.8 L (10 US gal.)
Color	Upon Request
Recommended Thickness	Primer: DE-100 or Poly 98 - 5-10 mils D.F.T. (350-150 ft²/gal) Finish Coat: Poly 98 Slow - 6-10 mils D.F.T. (350-150 ft²/gal)
Mix Ratio (by volume)	A : B = 1 : 1 (100 : 100)
Mix Ratio (by weight)	A : B = 100 : 107
Pot Life (454 g)	40 - 50 minutes @ 25°C
Working Time (25°C / 40% R.H.)	35 - 45 minutes
Tack Free Time (8 mils) (23˚C/12% RH)	6 - 8 Hours
Solids Content	98.5% by weight and volume
Thinner Recommended	Xylene
Shelf Life	12 months (unopened, away from extremes)
Specific Gravity	Part A: 1.12 - 1.13 Part B: 1.13 - 1.14 Mix: 1.05 - 1.10

Physical Properties @ 23°C (73°F), 50% R.H.

Abrasion Resistance, ASTM D4060, Taber Abrader CS-17 Wheel / 1000g (2.2 lbs.) / 1000 cycles	30 mg loss
Adhesion, ASTM D4541 Concrete-primer	>500 psi (substrate ruptures)
Water Absorption, ASTM D570	0.2%
Water Vapor Transmission, ASTM E96 Water Procedure B Film 0.01cm (0.004”)	1 perm
Hardness (Shore D), ASTM D2240	75 - 78
Flexibility, 1/8” Mandrel, ASTM D1737	Pass
Falling Sand Abrasion Resistance (L sand/ 1 dry mil), ASTM D968	45
Viscosity @ 25°C (cP)	Part A: 400 - 500 Part B: 150-180 Mix: 300 - 400

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Physical Properties @ 23°C (73°F), 50% R.H.	
Gloss, ASTM D523	95+
Fire Rating (CAN/ULC S102 / ASTM E84)	Flame Spread: 5; Smoke Developed: 94 (Class A)
Coefficient of Friction ASTM D1894	0.5 - 0.7
Tensile Strength, ASTM D638	7000-8000 psi
Compressive Strength (psi MPa), ASTM D695	9000 - 10000
***W/Quartz**	13700
***W/Chips**	12200
Elongation at Break, ASTM D638	100 - 110%
Tear Strength (PLI), ASTM D2240	350
VOC (g/L)	28

Curing Details

Temperature	Foot Traffic	Light Traffic	Full Cure
10°C (50°F)	3 days	7 days	10 days
20˚C (68°F)	6 hours	12 hours	7 days
30°C (86°F)	4 hours	8 hours	5 days

Recoat Window	Minimum	Max
10°C (50°F)	1 day	2 days
20˚C (68°F)	6 hours	12 hours
30°C (86°F)	4 hours	8 hours

SURFACE PREPARATION

Old Concrete

Concrete surface must be cleaned and mechanically prepared using shotblasting, sand blasting, and/ or diamond grinding. All oils, sealers, curing agents, waxes and fats must be removed prior to product application. Do not apply onto wet substrates. Chloride, moisture, and pH levels should be checked prior to application. Strongly recommended to use primer (DE-100) prior to application of Poly 98 Slow. All cracks and substrate imperfections should be filled and repaired prior to application.

New Concrete

New concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch2) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch2). Shotblasting, sand blasting, and/or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process. DE-100 primer is recommended to be used to seal porous concrete surfaces prior to application. All cracks and substrate imperfections should be filled and repaired prior to application.

MIXING

Materials should be pre-conditioned to a minimum of 15°C (50°F) 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 1A:1B by volume. Mix both 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.

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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 application equipment with a specified cleaner. Once the material hardens it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water.

OVERLAPS

Clean all application equipment with a specified cleaner. Once the material hardens it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water.

SUGGESTIONS

Sprinkle the primed area lightly with aggregate to provide better footing.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 15°C / 30°C (59°F / 86°F).
- Maximum relative humidity during application and curing: 85%.
- 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.
- Protect from humidity, condensation and contact with water during the 24-hour initial curing period.

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 a physician. For respiratory irritations, move affected person outdoors to fresh air. Remove contaminated clothes and wash before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke irritation. Avoid eye contact. Contact with product may cause severe burns. Avoid breathing vapors released 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. Always work in a properly ventilated area.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

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