

POLY ARMOUR 70

Two-Component Polyaspartic Aliphatic Polyurea Utilizing Nanotechnology

Product Description

Poly Armour 70 is a new, stand above all, two-component polyaspartic aliphatic polyurea utilizing innovative proprietary nanotechnology. It provides a high gloss clear coating. It's extremely quick curing time provides unmatched labor saving capabilities above epoxies and polyurethanes. Poly Armour 70 can be used for most types of interior applications over properly prepared surfaces. It's superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. Poly Armour 70 yields chemical splash and spill resistance and hot tire pick-up resistance much like it's epoxy counterpart. Poly Armour 70 can be used easily in conjunction with quartz, chip and rubberized aggregate systems.

Benefits & Features

- Provides ultimate abrasion, impact and wear resistance far exceeding many other applications.
- Entire application, in most cases, can be accomplished in just one day.
- It's excellent penetrating and bonding capabilities provide many years of durability.
- Highly economical considering the days of labor that can be saved by using a one day application.

Recommended Applications

Poly Armour 70 is recommended for use on interior concrete floors and other cementitious surfaces where a high gloss chemically cured coating is recommended.

Technical Information

Solids	70%	Wet Appearance	Clear
Drying Time	25-30 minutes	Dry Appearance	Clear and Very High Gloss
Re-Coat Time	2-3 Hours	VOC Content	<250 g/l
Foot Traffic	3-4 Hours	Blush Resistance	Excellent
Wheel Traffic	24 Hours (recommended)	Solvent Resistance	Excellent
Application Temp	40°F - 85°F	Concrete Adhesion	Excellent

Meets USDA/CFSAN, U.S. Food Code, physical facilities criteria as outlined in 6.100.11 Surface Characteristics USDA acceptable. Not intended for 21 CFR food contact.

***Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

Specifications/Compliances

Tensile Strength: ASTM D 638: 4,500 to 5,000 psi

Mandrel Bend ASTM D 522: Passes, no cracking, 1/8" mandrel bend

Falling Sand Abrasion Resistance ASTM D968:

Clear...30 liters sand/1 dry mil

Approximate Coverage Rates

DFT	1,122 ft. @ 1 mils	DFT	281 ft. @ 4 mils
DFT	561 ft. @ 2 mils	DFT	225 ft. @ 5 mils
DFT	374 ft. @ 3 mils	DFT	187 ft. @ 6 mils

Shelf Life

Poly Armour 70 has a shelf life of up to 12 months in it's original, sealed, unopened container.

Packaging

Poly Armour 70 is packaged in two quart, two gallon, and ten gallon kits.

ORRVILLE

133 North Kohler Road
Orrville, Ohio 44667
(330) 682-5678

CLEVELAND

7941 Granger Road
Cleveland, Ohio 44125
(216) 573-0770

COLUMBUS

690 Harrison Drive
Columbus, Ohio 43204
(614) 253-3326

POLY ARMOUR

www.eco-cretesupply.com

Instructions for Use

Surface Preparation: The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding method should be performed to an approximate 50-100 grit profile to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732.

Mixing: Proper mixing is pertinent to application success. In equal parts (1:1) mix Part A and Part B using a clean, dry working pot (mixing container). Stir contents approximately 30-60 seconds. Avoid over-mixing or creating a vortex which could introduce moisture content to the mixture. No induction time is required prior to use, nor after mixing. If integrating anti-skid media agents, only do so after Parts A & B have been thoroughly mixed.

Pot Life: Expected workable pot life after mixing Part A and Part B is approximately 25-30 minutes at a common temperature range of 70°F to 80°F at roughly 50% relative humidity. Please note that higher temperatures and high percentages of humidity will shorten pot life, as colder temperatures and lower percentages of humidity will extend the coatings pot life.

Application: Application of Poly Armour 70 should be completed using a 3/8" synthetic nap, phenolic core roller, or a lambs wool cover for pigmented, stained floors, or media coats. Use a foam squeegee and back roll with the roller over media floors (quartz or chips). It is recommended to use only 18" wide squeegees and rollers. If considering using airless application method, consult the manufacturer prior to application. Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

Clean-Up

Use xylene. Dispose of containers in accordance with local and federal regulations.

Product Removal

Dried, cured polyaspartic may be removed by using a diamond grinding method, sandblasting method or similar mechanical action. Paint strippers will not remove this product when cured.

Precautions & Limitations

- Poly Armour 70 will not freeze during storage, however, allow temperature to rise to 50°F prior to application.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- Keep away from open flames. Poly Armour 70 is flammable and is susceptible to ignition.
- It is not recommended to apply Poly Armour 70 to any floor without recommended preparation.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- Poly Armour 70 was designed for interior applications only. Exterior applications may not provide adequate adhesion.
- Please be aware that this product when cured may be slippery when wet.
- Poly Armour 70 has resistance to many chemicals, however testing chemical resistance is always recommended.
- It is not recommended to thin Poly Armour 70. It is a three component system which must be blended exact to specification.
- Poly Armour 70 may darken the surface of many new and existing concrete slabs. Test prior to use.

Special Notes

Please consult Safety Data Sheet (SDS) and read warranty information prior to use. This information can be requested by contacting customer service at 330-682-5678.

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