

# POLY ARMOUR 100

## Two-Component Polyaspartic Aliphatic Polyurea Nanotechnology

### Product Description

Poly Armour 100 is a new, stand above all, two component polyaspartic aliphatic polyurea utilizing innovative proprietary nanotechnology. It is UV stable and provides a high gloss clear coating. It's extremely quick curing time provides unmatched labor saving capabilities above epoxies and polyurethanes. Poly Armour 100 can be used for most types of interior and exterior applications over properly prepared surfaces. It's superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. Poly Armour 100 yields chemical splash and spill resistance and hot tire pick-up resistance much like it's epoxy counterpart. Poly Armour 100 can be used 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 bond capabilities provide many years of durability.
- Highly economical considering the days of labor that can be saved by using a one day application.

### Technical Information

Solids	100%	Wet Appearance	Clear
Pot Life	20 - 25 minutes	Dry Appearance	Clear and Very High Gloss
Re-Coat Time	2 - 3 hours	VOC Content	<0 g/l
Foot Traffic	3 - 4 hours	Foot Traffic	3 - 4 hours
Wheel Traffic	24 hours	Blush Resistance	Excellent
Application Temp	40°F - 85°F	Solvent Resistance	Excellent
Mix Ratio	1 Parts A : 1 Parts B	Concrete Adhesion	Excellent

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

### Property Profile

Tensile Strength: ASTM D 638: 4,500 to 5,000 psi      Falling Sand Abrasion Resistance ASTM D 968  
Mandrel Bend ASTM D 522: Passes, no cracking, 1/8" mandrel bend      Clear...30 liters sand/1 dry mil

### Approximate Coverage Rates

Theoretical Coverage @ 100% Solids (Volume) per gallon  
DFT ..... 1,604 ft. @ 1 mils  
Average applied coverage is 250 - 400 square feet per gallon

### Shelf Life

Poly Armour 100 has a shelf life of up to 12 months in it's original, sealed, unopened containers.

### Packaging

Poly Armour 100 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**

**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 exact 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 20-25 minutes at a common temperature range of 70°F - 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 100 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.

## **Clean-up**

Use xylene. Dispose of containers in accordance with local, state 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 100 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 from open flames. Poly Armour 100 is flammable and is very susceptible to ignition
- It is not recommended to apply Poly Armour 100 any floor without recommended preparation.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- Poly Armour 100 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 100 has resistance to many chemicals, however testing chemical resistance is always recommended.
- It is not recommended to thin Poly Armour 100. It is a two component system which must be blended exact to specifications.
- Poly Armour 100 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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