



RESINS

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AR-Poly 85

Technical Data Sheet

AR Poly 85 is a two-component (1A:1B) Polyaspartic non yellowing floor coating. AR Poly 85 has a fast cure time with an estimate of 2 hours allowing the installation in a single day. This product can be used at very low temperature levels. This product offers mechanical and chemical properties and is low maintenance. It also displays a superior gloss finish and excellent UV stability which makes it ideal for interior and exterior applications. Two- or three-coats are recommended.

Uses:

- Retails Stores
- Parking Garages
- Commercial Buildings
- Offices Buildings
- Residential
- Hospitals
- Schools

Advantages:

- Non-yellowing
- Fast Curing
- Can used in low temp.
- Extended Pot life
- Chemical Resistance
- Easy install
- Low Viscosity

Application Data

<u>Mix Ratio</u>	<u>1A:1B</u>
<u>Packing</u>	<u>2 gal kit</u>
<u>Shelf life</u>	<u>12 months</u>
<u>Application temp.</u>	<u>Sub 32° C, Max 90 C°</u>
<u>Pot Life</u>	<u>30mins</u>

Cure Time

<u>Working time</u>	<u>25 min</u>
<u>Tack Free</u>	<u>120 min</u>
<u>Recoat time</u>	<u>120 min</u>
<u>Dry Through</u>	<u>6 hours</u>
<u>Foot Traffic</u>	<u>12 hours</u>
<u>Light Traffic</u>	<u>24 hours</u>
<u>Full Cure</u>	<u>2 weeks</u>

Surface Preparation

Concrete should be cured for at least 28 days before applying the AR Poly 85. Concrete should be clean, dry and free of oil, grease or agents that may inhibit proper adhesion. Practice proper testing procedures to soil acidity and moisture vapor transmission. Take a PH reading to ensure concrete is neutral.

Prep Surface using a mechanical means with a CSP-2 or more.

If being used as a recoat the floor should be sanded. Sand in a multidirectional way to create this finish.

Mixing

The mixing container must be clean and free from dust. Before mixing, premixed part A individually at low speed. Then, mix one part of A and one part of B together at low speed in a separate container. Mix thoroughly for a minimum of two minutes, until a completely homogeneous mixture is obtained. Use a low-speed drill (300-450 rpm) to minimize the entrapping of air. It is recommended to activate the mixer in the reverse mode after 90 seconds for the liquid to mix from the bottom of the mixing can to the top. Make sure to scrap sides and bottom of mixing container so no unmixed material remains. Mix only the necessary quantity to be used according to the specified pot life / working time.

Application

To achieve best results, use between 32°F and 90°F and with a humidity of less than 50%. This product will also cure at temperatures well below -32°F and below. AR- Poly 85 is designed to adhere on concrete surfaces. If a heated floor is installed, ensure that the system is turned off during application and for the full duration of the cure. Once the surface has been properly prepared, squeegee and back roll the product. It is recommended to apply the product in a multidirectional motion to ensure proper coating thickness.

Technical Properties

Hardness	ASTM D2240	75	Shore D
Tensile Strength	ASTM D638	6600-7600	psi
DE 500	ASTM 32424	<2.0	
Pull off Test		=3	Mps
Abrasion (1000 Cycles)	ASTM D4060	32	(mg loss)
Gardner Impact(Dir/Rev)		>140	lbs
Flexibility 1/8 Mandrel	ATSM	D1737	
Elongation	ASTM D638	100	%
Viscosity		150-200	
Water Absorption 9%)	ASTM	D570	
Tear Strength	ASTM D1737	300+/-50	
Compressive Strenght	ASTM D695	9600psi	

FIRST AID

In case of contact with skin, wash thoroughly with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release 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. Predict suitable ventilation. Consult the material safety data sheet for further information.

IMPORTANT NOTICE

Then clean floor with xylene to remove all dust after sanding and to soften the existing layer. The use of xylene is mandatory.

IMPORTANT NOTICE

The recommendations and information contained in this document are based on reliable test results according to AR. It is the responsibility of the user to validate the information therein and to test the product before using it. AR assumes no legal responsibility for the results obtained in such cases. AR assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.

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This data sheet provides typical properties for American Resin products. Before using this product, the user is advised and cautioned to make their own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. Please refer to the product label for further safety information

