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# AR-100

## Technical Data Sheet

*AR-100 is an exceptionally high gloss, self-leveling epoxy coating, that is supplied as a 2 Parts A and 1 Part B by volume system. AR-100 has a long work time of 65 minutes which allows for extended work time to apply product. AR-100 is 100% solids (zero VOC) without the use of extenders or plasticizers enhancing durability and chemical resistance. Can be used on concrete floors, countertops and other decorative surfaces. When used on concrete floors it is recommended to be applied over either a MVB or VRM primer. May be used as a pigmented topcoat with American Resins pigment packs or as a clear resulting in high gloss pigmented coatings or water white clear coats.*

### Uses:

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

### Advantages:

- Chemical resistance
- Zero VOC
- Longer work time
- Extended Pot life
- Chemical Resistance
- Excellent long-term capabilities

## Application Data

Mix Ratio	2A:1B
Packing	3-gal kit
Application temp.	40 F° - 90 F°
Shelf Life	12 months
Pot life	45min

## Cure Time

Working time	70-90 min
Tack Free	18- 24 hours
Recoat time	18-24hours
Full Cure	7 days
Foot Traffic	24 hours
Light Traffic	48 hours

## Surface Preparation

Concrete should be cured for at least 28 days before applying the AR 100 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. Then clean floor with xylene to remove all dust after sanding and to soften the existing layer. The use of xylene is mandatory.

### Technical Properties

Hardness	ASTM D2240	85 -90
Tensile Strength	ASTM D638	5500psi
Flammability	ASTM D635	<0.5%
Abrasion	ASTM D4060	36(mg)
Compressive strength	ASTM D 695	68000
Elongation	ASTM D412	6.7 %
60 degree gloss	ASTM D523	> 95
Solids content		100 %
VOC Content		0
Mixed Visc.		950-1150 cps

### PART A:

VOC's: 0  
Toxicity: See SDS  
Flammable: Nonflammable  
Color: Clear- Slightly Cloudy  
Viscosity: 1700-1900 cps  
Wt per gallon 9.4 lbs

### PART B:

VOC's: 0  
Toxicity: See SDS  
Flammable: Nonflammable  
Color: Clear- Amber  
Viscosity: 300-400 cps  
Wt per gallon 8.2 lbs

## Mixing

The mixing container must be clean and free from dust. In very hot weather it is advisable to mix smaller batches to ensure good flow and workability. When mixing metallics premix into Part A before blending with Part B. Allow metallics to sit overnight. Combining ratio is 2 Parts A to 1 Part B. Pour onto floor immediately to prevent exotherm reaction. Proportion the amounts carefully and mix for 2 full minutes using a low-speed drill, scraping the bottom and sides of the mixing vessel.

## Application

AR 100 is normally applied 50-150sq. ft. per gallon by brush, roller. AR 100 should normally be recoated after an overnight cure period. However, if conditions are very cool and/or damp, 48 hours cure time should be allowed before recoating. If the product cures longer than 72 hours, the surface should be lightly sanded before recoating. When using a pigmented finish coat, keep a “wet edge” and do not attempt to roll over material that has begun to set as a change in color will result.

## 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.

## CLEAN UP/STORAGE

Store in clean dry area. Do not freeze. Dispose in accordance with all state local and federal laws. Clean-up tools and equipment with xylene.

## IMPORTANT NOTICE

The recommendations and information contained in this document are based on reliable test results according to PPI. It is the responsibility of the user to validate the information therein and to test the product before using it. PPI assumes no legal responsibility for the results obtained in such cases. PPI 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.

### **FOR PROFESSIONAL USE ONLY!!**

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 consult our SDS for further safety information

