



## Cem-Rez AP 2300

### PRODUCT DESCRIPTION AND USE

Cem-Rez AP 2300 is a specially formulated acrylic polymer designed to be used in various Cem-Rez Resurfacing Systems. Cem-Rez AP 2300 produces an overlay with superior strength, durability and long term freeze/thaw resistance.

### **Chemical Composition**

Acrylic polymers

### **Limitations**

- Surface must be clean and profiled.
- Application temperature must be at least 40 degrees and rising.

### TECHNICAL DATA

#### **Physical Properties**

Appearance ..... Milky white liquid  
Solids Content ..... 23%

#### **Performance Properties**

Polymer concrete test specimens had a ratio of graded silica aggregate to cement of 2-1 by weight. The ratio of polymer solids to cement was .20 by weight. Testing was conducted after a 28 day cure.

Compressive Strength (ASTM C-109)..... 5300 psi  
Tensile Strength (ASTM C-109) ..... 675 psi  
Flexural Strength (ASTM C78-84) ..... 1400 psi  
Freeze/Thaw Durability (ASTM C-666) ..... 98  
Tensile Bond Adhesion (Kuhlmann Test)..... 390 psi-substrate failure  
Abrasion Resistance (ASTM C419-68) ..... 32% better than conventional concrete

### WARRANTY INFORMATION

Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

### **HIGH PERFORMANCE CONCRETE COATING SYSTEM**

## **GENERAL INFORMATION**

### **Moisture Vapor Emissions Precautions**

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings. APF can supply moisture remediation products. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

### **Surface Preparation**

Surface must be clean, sound and have a 5-10 mil profile. Profile may be achieved by shotblasting or acid etching. Acid etching may be done either with a floor machine and nylogrit brush or a stiff bristled broom followed by pressure washing. The etching solution should be three parts water to one part muriatic acid. Follow the guidelines listed in the APF surface preparation manual. **Do not let the etching solution dry on the concrete. Etched surface must be neutralized with a solution of 8 oz. APF Super Base Neutralizer to 4 gallons of water. Acid residue left on the surface will reduce the bond strength of the overlay.**

**Refer to Cem-Rez data sheets for mixing instructions, coverage rates and application instructions.**

### **Handling Precautions**

Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.

### **Slip and Fall Precautions**

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Arizona Polymer Flooring recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Arizona Polymer Flooring or its sales agents will not be responsible for injury incurred in a slip and fall accident.