



# Cem-Rez EV 5500

## PRODUCT DESCRIPTION AND USE

Cem-Rez EV 5500 is a specially formulated polymer designed to be used in various Cem-Rez Resurfacing Systems. Cem-Rez EV 5500 produces an overlay with superior strength, durability and long term freeze/thaw resistance.

### **Chemical Composition**

EVA 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 ..... 55%

### **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)..... 4900 psi  
 Tensile Strength (ASTM C-109) ..... 625 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.

## **SPECIALIZED FLOOR COATINGS & DECORATIVE CONCRETE SYSTEMS**

## **GENERAL INFORMATION**

### **Moisture Vapor Emissions/Alkalinity Precautions**

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission and related high levels of alkalinity 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 or alkalinity are present before applying any coatings. These test kits are available from APF. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.

### **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.**

### **Mixing Instructions**

Mix EV 5500 polymer 2 parts water to 1 part polymer. Once the polymer is cut it can be used as a admixture. The addition levels will vary depending on which Cem-Rez system you are installing typically from 1 to 2 gallons per bag.

### **Handling Precautions**

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