APF ARIZONA POLYMER FLOORING, INC.
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EPOXY 550

PRODUCT DESCRIPTION AND USE

Epoxy 550 is a high solids, low odor material designed as a base coat for color chip flooring. Epoxy 550 is formulated with an unusually high pigment loading for excellent substrate hide in a one coat application. This allows the contractor to omit the normally used primer and saves a trip to the jobsite. Epoxy 550 adheres tenaciously to damp or dry concrete and gives the contractor ample open time for broadcasting the color chips. The material is formulated with low odor glycol ether solvents that are considerably less hazardous than conventional aromatic or ketone solvents.

Chemical Composition
Modified Bisphenol A epoxy resin crosslinked with aliphatic amines.

Colors
Available in 9 standard colors plus several additional colors used in color chip flooring.

Limitations
- Must be applied at 150-200 sq. ft. per gallon over profiled concrete to obtain adequate substrate hide.

TECHNICAL DATA

Physical and Performance Properties

Mixing Ratio, by Volume	1-1
Solids Content, by Weight	81.5%
Pot Life, 1 quart mass, 77°F	90 minutes
Pot Life is reduced by increasing temperature and/or mass	
VOC	250 gms./liter
Adhesion to Damp Concrete (ASTM 451)	375 psi, concrete fails
Cure Time for recoating (77° F)	10 hours

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 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.

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.

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GENERAL INFORMATION (Cont'd.)

Surface Preparation
Surface must be clean, sound, and have a minimum 5 mil profile to closely approximate the texture of 120 grit sandpaper. Surface may be damp but standing water must be removed. Surface must be profiled by diamond grinding or acid etching. **If diamond grinding, remove residual dust by high pressure water or thoroughly vacuuming. If acid etching, a floor machine with a nylogrit brush must be used and the floor neutralized with ammonia or APF Super Base Neutralizer.** Follow the guidelines listed in the surface preparation section of the APF product catalogue.

Mixing Instructions
The mixing ratio is 1 Part A to 1 Part B by volume. Premix Part A before adding Part B. Do not mix more material than can be applied in 90 minutes at 77°F. Higher temperatures reduce work time. **Proportion the two components carefully and mix for 2 minutes using a drill mixer being sure to scrape the bottom and sides of the mixing vessel.**

Application Recommendations
Material should be poured from the mixing pail and spread using a flat trowel or squeegee at the rate of 150-200 sq. ft. depending upon the porosity of the concrete. A mechanic wearing spiked shoes should walk onto the wet material and backroll using a ½ inch roller nap. Brush trim the edges. The goal is to distribute the material evenly to completely hide the substrate. If concrete shadows appear, apply additional product and backroll. Broadcast the color chips into the wet material within 30 minutes of coating application. See complete system application instructions for further details.

Handling Precautions
Do not breathe vapors. Use appropriate respirator with green band cartridge to protect against methyl amine vapors. Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.