

APF AQUA PRIME

PRODUCT DESCRIPTION AND USE

APF Aqua Prime is a proprietary blend of water soluble polymers designed for use as a high adhesive primer over conventional, architectural and polymer modified concrete. The result of an extensive developmental process and unique resin technology, Aqua Prime overcomes a major limitation of previously available single component water-based materials – marginal adhesion to conventional concrete substrates. Adhesion testing on applications done over clean concrete surfaces with a 5-10 mil profile showed tensile pull strengths of 350-400 psi with cohesive failure of the concrete. These values are comparable to values shown by amine cured epoxies. Aqua Prime is a fast dry material that enhances the color of decorative substrates without the pronounced darkening that occurs with epoxies or solvent sealers. It is non-yellowing and suitable for exterior use.

APF Aqua Prime is used under both water-based and solvent-based acrylic or polyurethane finish coats. It is especially useful in clear driveway and garage floor coating systems where a darkening effect is not desired and excellent resistance to hot tire pickup is required.

Chemical Composition

Water-based polymers, solvents and U.V. absorbers.

Colors

Available in clear only.

Limitations

- Do not apply to smooth, unprofiled surfaces.
- Substrate must be 40°F and rising.
- Not suitable for use over acid stain.

TECHNICAL DATA

Physical Properties

Solids Content, by Weight 25%
Volatile Organic Compounds 50 gms./ltr.
Recoat (77°F, 50% RH) 15-45 minutes
Adhesion to Concrete with 5-10 mil profile (ASTM 451) 350-400 psi, Concrete failure

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 and sound and have at least a 5 mil profile (similar to 120 grit sandpaper). Testing has shown that adhesion increases with the amount of surface profile. It is better to have too much profile than too little. Conventional concrete must be acid etched or diamond ground. If acid etched, a floor machine with a nylogrit brush must be used and the surface neutralized with APF Super Base Neutralizer or ammonia. **Acid residues left on the surface will compromise adhesion.** Read and follow the APF Surface Preparation Guidelines.

If the surface is prepared by diamond grinding, grind thoroughly to "open up" the surface. Vacuum concrete dust and rinse aggressively with a pressure washer (minimum 2,500 psi).

Application Recommendations

The surface to be coated may be damp, but with no standing water. If the surface is in direct sunlight and the temperature is over 85°F, dampen the surface prior to application to insure best penetration and adhesion.

Stir the material well before each use, do not thin. In very hot weather, the addition of 10% ethylene glycol will slow the dry. Apply by brush, roller or airless sprayer. If using a roller, apply with a 3/8 or 1/2 inch nap cover using the dip and roll method. Do not pour the material directly on the concrete. May be recoated with other water-based materials as soon as the Aqua Prime is tack free, usually 15-45 minutes. Allow overnight cure before recoating with solvent based materials. Application rate should be 200-300 sq. ft. per gallon.

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.