APF COLOR FUSE

PRODUCT DESCRIPTION AND USE

APF Color Fuse is a proprietary blend of water soluble polymers and liquid pigment dispersions designed for staining both conventional and polymer modified concrete. When applied over conventional concrete, the use of fast dry Polyurethane 525 Primer is required. APF Color Fuse is easily applied using a pump up sprayer, HVLP or airless spray. It is designed to be reduced with equal parts water prior to use. This feature reduces shipping costs and improves the application economics.

APF Color Fuse is formulated to achieve the variegated color tones of acid stain without the necessity of rinsing and neutralizing the surface after application. Exposure to toxic acids and disposal problems are eliminated. It is available in 18 colors that can be blended or overlaid to create a wide variety of vibrant color hues. The material is translucent when used sparingly and provides a more opaque look as additional coats are applied. The various application techniques possible with this product allow for a high degree of creative expression. APF Color Fuse is designed to be sealed with either solvent based or water based polyurethane finish coats. In exterior applications, a UV absorber package must be added to the clear finish coat to protect the Color Fuse.

APF Color Fuse is ideal for creating unique looks in many commercial and residential settings. Recommended applications include restaurants, showrooms, offices, home interiors, patios, garage floors, and driveways.

Chemical Composition
Water-based polymers and liquid pigment dispersions.

Colors
18 standard colors plus black.

Limitations
- Substrate must be 40° and rising.
- When used over conventional concrete, Polyurethane 525 Primer is required.
- A UV stabilized clear coat must be used in exterior applications.

TECHNICAL DATA

Physical Properties
Solids Content, by Weight 22%
Volatile Organic Compounds..... 80 gms./ltr.
Recoat (77°F, 50% RH)..... 15-60 minutes

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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
When using over conventional concrete, APF Color Fuse must be applied over Polyurethane 525 Primer. See the Polyurethane 525 Primer data sheet for surface preparation instructions. If using over polymer concrete, the surface must be uncoated, clean and absorbent. If the surface is new, pressure washing is acceptable. If the surface is not new, scrub with APF Orange Clean using a floor machine and a nylogrit brush. After scrubbing, pressure wash the surface and allow to dry before coating.

Packaging
Color Fuse is packaged as a clear base which is intended to be reduced with equal amounts of water. Stir the base material well prior to water reduction. After water reduction, add one 3 oz. Dixie cup of color concentrate for every gallon of reduced material. More colorant or less colorant can be added to alter color intensity and opacity. Be sure to premix the colorant well before adding.

Application Recommendations
APF Color Fuse must be reduced at least 1-1 with water. Up to 2 parts water may be added to achieve certain looks. The color chart colors can be closely approximated by applying 2 coats of 1-1 reduced material at 250-300 sq. ft. per gallon using 3 oz. of colorant for every gallon. If using over polymer concrete, dampen the surface prior to application. If applying over conventional concrete, apply directly to the primer. Do not dampen the primer.

The product may be applied with a pump-up sprayer, HVLP sprayer or airless sprayer. If the goal is to lay down a single color base and a heavier application is desired, a pump-up sprayer can be used. Be careful not to over apply, especially on a sloped surface that may cause runs! Do not backroll Color Fuse as this can cause streaking. On second and third coats, HVLP or airless will allow for more control of the material resulting in more interesting looks.

The material dries in 20-60 minutes depending on temperature, humidity and ventilation. Adding 10% isopropyl alcohol will speed the dry in cool, damp conditions. Variations in color will be achieved by differences in the amount of material deposited or overlaying one color with another. Indentations and shallows in the substrate will naturally become darker than the high spots. This produces a desirable "antiquing" effect. Total usage of the unreduced material from 150-300 sq. ft. per gallon depending upon the desired effect.

Clear Coat Applications
Color Fuse is designed to be used with a protective clear coat when applied as a flooring treatment. A variety of clear coats may be used over Color Fuse. **If the application is exterior, the clear coat must contain a UV absorber package to protect the Color Fuse.** Polyurethane 250 and 501 may be applied as soon as the stain is dry enough to walk on. One or two coats of clear may be used depending upon service conditions. If using Polyurethane 100 or Polyurethane 100 VOC, a coat of Polyurethane 250 must be used over the stain as a tie coat. **Incorporation of a slip-resistant particle in the clear coat is required in exterior applications.** Consult your distributor or the factory for clear recommendations for a particular area.

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.