

## PRODUCT DESCRIPTION

APF Polyurethane 325 is a three-component, high solids aliphatic moisture urethane. This product offers a remarkable combination of performance properties not found in other polymer coatings. APF Polyurethane 325 produces a protective film which is hard, flexible, and impact resistant. APF Polyurethane 325 features extreme abrasion and scratch resistance, easy soil release, and excellent resistance to a broad range of chemicals. For exterior applications, a UV stabilizer package may be incorporated to insure long term chalk resistance and gloss retention.

Designed as a high-performance topcoat for various protective coating and seamless flooring applications, APF Polyurethane 325 provides maximum cleanability and stain resistance when used as a finish coat in color chip flooring or epoxy-quartz flooring. This coating is ideally suited for clean-room floors, automotive repair facilities, aircraft hangars and other high wear areas requiring resistance to fuels and chemicals.

## ADVANTAGES

- Resistant to fuels and many chemicals
- Hard, high-gloss, easily cleaned surface
- Graffiti resistant when used as wall surface

## USES

- Finish for color quartz and vinyl mosaic flake systems
- Automotive facilities
- Aircraft Hangars
- Clean Rooms

## COLORS

Factory Supplied 16 Standard Colors & Clear

## PACKAGING

Supplied in complete A+B 1.25 gallon (4.7 L) or 2.5 gallon (9.46 L) clear, or 1.5 Gallon (5.67 L) and 3.0 gallon (11.35 L) in pigmented total volume mixed units. Use only as complete mixed unit, do not break down into partial mixes.

## TECHNICAL DATA

Mixing Ratio by Volume	Mix Full Units Only
VOC Clear	9 g/l
VOC Pigmented	12 g/l
Solids Content, by Volume, Pigmented	93%
Solids Content, by Volume, Clear	90%
Gloss (60 degrees) ASTM D523 - 14	50 - 60
Hardness ASTM D2134 (Gardner/Sward)	30
Tabor Abrasion (3250 gm. load 3250 cycles, CS 17 wheel)	18 mg Loss
Flexibility ASTM D222	Passes 1/8-inch
Impact Resistance ASTM D2794	Passes 160 inch-pound direct and reverse
Dry Times (77°F)	
Dry To Touch	~6 - 8 Hours
Recoat	~10 - 12 Hours
Light Traffic	~24 Hours
Higher temperatures will shorten Full Traffic. Lower temperatures will increase cure time.	Full Traffic ~7 Days

## CONCRETE MOISTURE

Test for concrete moisture in accordance with ASTM F2170-19. If moisture is indicated to be in excess of 85%, apply APF Vapor-Solve® system in accordance with the published technical data sheet. Consult APF Technical Service for further information.

## SURFACE PREPARATION

Polyurethane 325 is intended to be applied over primed or previously coated surfaces. Do not apply directly to concrete. The surface must be clean, dry and free from all dirt, wax, oil, chalk, incompatible paint or detergent film. Fully cured, previously coated surfaces must be cleaned and sanded lightly with 80-100 grit sandpaper or otherwise mechanically abraded before recoating. Concrete must be cured for at least 30 days and be clean, structurally sound, and free of wax, loose paint or curing compounds.

## PREPARATION, cont.

Concrete should be shot blasted to achieve a surface minimum texture of ICRI 3 - 4. Refer to ICRI Technical Guidelines 310-330 *Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair*.

Acid etching is not recommended and will void Manufacturer's warranty.

Carefully follow the guidelines listed in the Arizona Polymer Flooring published application instructions available at [www.apfepoxy.com](http://www.apfepoxy.com). Vacuum prepared concrete surface to remove all dust. Previously coated surfaces that are soundly adhered must be mechanically cleaned and abraded to achieve uniformly gloss-free, open texture.

## MIXING

Mix full units only, do not break down factory supplied kit. Mix only that amount of material that can be used in a 3 hour period at 77°F. Mix Part A and Part B together using a low speed drill, and then slowly add part C (wear additive) while mixing. Once all component are combined mix for a full two minutes. Immediately begin application after mixing as wear additive will begin to settle.

## APPLICATION

APF Polyurethane 325 may be applied by brush, roller or airless sprayer. Apply at 350 - 400 sq. ft. per gallon with quality 3/8- or 1/2-inch nap roller as a finish coat over primed concrete. It is **very important** to achieve a uniform application rate. of 300 - 350 sq. ft. per gallon. Heavier films will be glossier, thinner applications will be flatter.

## LIMITATIONS

- Do not use on unprimed substrate.
- Do not apply when relative humidity is above 85%
- Do not apply when temperature is within 5 degrees of the dew point
- If coating is applied heavier than 8 mils wet curing bubbles will be trapped in the film
- Inconsistent film thickness can result in changes in gloss.

## SHELF LIFE

One [1] year from date of manufacture, in original unopened container. Store away from heat sources between 50°F and 85°F (10°C - 30°C). Do not allow to freeze.

## HANDLING & SAFETY

Material is combustible. Extinguish all flames, pilot lights, and electric motors until all vapors are gone and the coating is hard. The vapor is harmful. Use only with adequate ventilation and appropriate cartridge-type respirator as application conditions require. Avoid contact with skin; wear protective gloves. Application personnel must read and fully understand product Safety Data Sheet before using. APF Safety Data Sheets are available at [www.apfepoxy.com](http://www.apfepoxy.com)

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### Standard Warranty Statement

ICP BUILDING SOLUTIONS GROUP, the owner of Arizona Polymer Flooring, warrants that the product is produced within specifications and is free from defect. No warranty shall be in effect until ICP Building Solutions Group Terms and Conditions of Sales are met, including payment and cooperative promotional considerations. ICP Building Solutions Group warrants that the covered product is free of defect and suitable for the specified purpose for a period of one (1) year from the date of shipment, provided the product is installed within its published shelf life, in strict conformance with specifications, and/or written project-specific installation guidance from authorized representation. ICP Building Solutions Group warrants only when product is handled, stored, mixed and applied in accordance with published recommendations. It is purchaser responsibility to initiate any claim against this warranty within a reasonable time. If determined by ICP that the product does not meet this warranty, the liability of ICP Building Solutions Group shall be limited to refund of the purchase price or provision of replacement product, neither needing to exceed the affected area as determined by a person authorized to perform technical representation for ICP Building Solutions Group. To obtain a replacement or refund the customer must provide written notice containing full details of the non-conformity suspected. The purchaser, owner or their representative shall notify ICP Building Solutions Group, in writing, within five (5) working days concerning any potential defect, or as needed before conditions deteriorate and increase repair costs. ICP Building Solutions Group reserves the right to inspect the non-conforming material prior to replacement. ICP Building Solutions Group may in its discretion refund the purchase price received by ICP Building Solutions Group in lieu of replacing the material. Except for the expressed warranty stated above, there are no other warranties, expressed or implied, including without limitation, any implied warranty of merchantability or fitness for purpose. ICP Building Solutions Group's obligation shall not extend beyond the obligations expressly undertaken above and ICP Building Solutions Group shall have no liability or responsibility to purchaser or any third party for any loss, cost, expense, damage or liability, whether direct or indirect, or for incidental or consequential damages. No customer, distributor, or representative of ICP Building Solutions Group is authorized to change or modify the published data sheets or this warranty in any way. No one is authorized to make oral warranties on behalf of ICP Building Solutions.