

## PRODUCT DESCRIPTION

APF POLYURETHANE 250 is a two-component, low viscosity acrylic urethane for use as a primer/sealer over a variety of surfaces. The use of special solvents and adhesion promoters gives this material excellent penetration and adhesion to minimally profiled concrete. APF POLYURETHANE 250 is UV stable for use in exterior applications, cures rapidly, and may be re-coated with both solvent-based and water-based polyurethanes. When used as a finish coat, this material creates a hard, high gloss surface that offers excellent stain resistance and easy cleanability. Compared to solvent-based acrylic sealers, APF POLYURETHANE 250 offers substantial improvements in gloss retention, and overall performance. APF POLYURETHANE 250 is available in a satin finish. A low VOC version of this material is available to meet environmental regulations.

APF POLYURETHANE 250 is designed for application over concrete, acid stained surfaces, and various types of architectural concrete. It has excellent performance as a sealer for pavers and new saltillo tile. It is suitable over acid stained concrete as it is unaffected by pH drifts that can affect the adhesion of other types of primers. When applied over acid stains or integrally colored concrete, it gives color enhancement similar to solvent acrylic sealers.

APF POLYURETHANE 250 can also be applied as a tie coat over difficult to adhere to surfaces such as polyester urethane. When applied as a finish coat in vehicle areas, it resists tire marking and provides an easily cleaned surface.

## ADVANTAGES

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

## USES

- Finish for Color Quartz and Vinyl Mosaic Flake systems
- Finish for Armor-Rez Concrete Grind & Seal System
- Automotive facilities
- Warehouses
- Aircraft Hangars
- Retail & Dining

## PACKAGING

Supplied Clear & Clear Satin Finish, in complete A+B 1.5 gallon (5.7 L) or 15 gallon (56.8 L) total volume mixed units. Mix ratio 2A : 1B

## TECHNICAL DATA

Mixing Ratio by Volume	2A : 1B
VOC Clear & Satin	551 g/l
Solids Content, by Volume, Clear	58.5%
Gloss (60 degrees) ASTM D523 - 14	90
Hardness ASTM D4366 (Konig)	127
Tabor Abrasion (1000 gm. load 1000 cycles, CS 17 wheel)	69 mg Loss
Flexibility ASTM D-222	Passes 1/8-inch
Impact Resistance ASTM D-2794	Passes 160 ft/lbs, Direct & Reverse
Re-coat Final Flooring Application	~5 - 6 Hours
Dry Times (77°F)	
Recoat	~90 Minutes
Light Traffic	~4 Hours
Full Traffic	~3 Days

Higher temperatures will shorten cure time. Lower temperatures will increase cure time.

## 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

Concrete must be cured for at least 30 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be shot blasted to achieve a surface minimum texture of ICRI CSP 2. 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 only that amount of product that can be used in a two-hour period at 77°F. Higher temperatures reduce pot life. The mixing ratio is 2 parts A to 1 part B. Proportion the amounts carefully and mix for one full minute using a low speed drill, scraping the bottom and sides of the mixing vessel. Avoid contamination with moisture. Reseal partially used containers completely after use.

## APPLICATION

APF POLYURETHANE 250 may be applied by brush or roller. If rolling the material, use a 1/2 or 3/8-inch solvent resistant roller cover, work out of a 5-gallon pail or roller pan using the dip and roll method. Do not pour the material onto the floor. Because the material dries quickly, apply liberally and work small areas. Application rate should be 200-300 sq. ft. per gallon. Do not over-apply or allow to puddle as solvent entrapment may occur. **DO NOT USE SOLVENT BASED ACRYLIC SEALERS AS A PRIMER FOR THIS MATERIAL.**

## RECOATING GUIDELINES

APF POLYURETHANE 250 has an indefinite recoat window when being recoated with itself. If recoating with APF POLYURETHANE 100 and more than 24 hours has elapsed, reduce the material with approximately 15% acetone (1 pint acetone to 1 gallon of mixed material). If re-coating APF POLYURETHANE 250 with APF POLYURETHANE 501 and more than 24 hours elapses, de-gloss the surface using a floor machine and a black janitorial abrasive pad. Following these procedures will ensure good intercoat adhesion.

## LIMITATIONS

- Do not apply **POLYURETHANE 250 Satin** direct to concrete, apply only to primed surface.
- Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5°F over dew point.
- Use of kerosene or propane forced air heating equipment during application may cause discoloration and finish defects.
- Use only acetone in new, unopened, and tightly sealed containers. Moisture contamination may occur if old solvent is used.

## SHELF LIFE

Six [6] months 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 an appropriate cartridge-type respirator as application conditions require. Avoid contact with skin; wear protective gloves. Application personal 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)

APF POLYURETHANE 250 PDS 08.09.2021

## 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.