

## PRODUCT DESCRIPTION

APF POLYURETHANE 250 VOC 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 VOC 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 VOC offers substantial improvements in gloss retention, and overall performance. APF POLYURETHANE 250 VOC is available in a satin finish. A low VOC version of this material is available to meet environmental regulations.

APF POLYURETHANE 250 VOC 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 un-waxed 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 VOC 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 in **Clear & Clear Satin** finish 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	19 g/l
Solids Content, by Volume, Clear	38.5%
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

It is the applicators responsibility to Test for concrete moisture in accordance with ASTM F2170-19. If moisture is indicated to be in excess of 85%, apply APF VaporSolve® 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, have a minimum compressive strength of 3000 psi, be clean, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be properly prepared to achieve a surface minimum texture of ICRI/CSP 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 APF published application instructions available at [www.apfepoxy.com](http://www.apfepoxy.com). Vacuum the 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 material that can be used in a 2 hour period at 77°F. Higher temperatures and the addition of accelerator will reduce work time. In hot weather, mix smaller batches. If using the pigmented system, thoroughly premix part A before adding part B. Mixing ratio is 2 parts A to 1 part B. For Satin version, Premix Parts A & B with separate mixing paddles to ensure no cross contamination. Proportion the amounts carefully and mix for two full minutes using a slow speed drill, scraping the bottom and sides of the mixing container. It is important to NOT whip air into the material while mixing. Material cannot be properly mixed by hand. Reseal partially used containers completely after use. Avoid contamination with moisture. B component will react with moisture.

## APPLICATION

APF POLYURETHANE 250 VOC may be applied by brush or roller. If rolling the material, use a 1/4 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 300-400 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

If recoating after 24 hours de-gloss the surface using a floor machine and a black ScotchBrite® pad. Following these procedures will ensure good intercoat adhesion.

## LIMITATIONS

- Do not apply POLYURETHANE 250 VOC 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.
- Work life is considerably shortened over 90 degrees F.
- Do not apply material if the humidity is over 80% and/or poor ventilation/limited air changes. Improper cure will result.

## SHELF LIFE

One [1] year from date of manufacture, in original unopened container. Store away from heat sources. Store between 50°F and 85°F (10°C – 30°C). Do not allow to freeze. Frozen material is unusable and must be properly disposed of.

## 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 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)

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## STANDARD WARRANTY STATEMENT

ICP Construction, Inc. ("we" "us" or "our"), manufacturer of Arizona Polymer Flooring, warrants that the product is produced within specifications and is free from defects in material only. No warranty shall be in effect until our Terms and Conditions of Sales (<https://www.icpgroup.com/wp-content/uploads/ICP-Group-Terms-and-Conditions-of-Sale.pdf>) are met, including payment and cooperative promotional considerations. We warrant that the covered product is free of defects in material only and suitable for the specified purpose for a period of one (1) year from the date of shipment, provided the product is (a) installed within its published shelf life, in strict conformance with specifications, and (b) handled, stored, mixed, and applied in accordance with our written instructions. It is your responsibility to initiate any claim against this warranty within the time frame specified below. If we determine that the product meets the requirements of this warranty, then we will, at our sole discretion, either refund the purchase price of the product or provide replacement product, in each case not to exceed the affected area as determined by our authorized technical representative. To obtain replacement or refund you must (a) provide timely written notice to us specifying in detail the non-conformity suspected (no later than five (5) working days after discovery), and (b) provide proof of purchase. We reserve the right to inspect the product prior to replacement. EXCEPT FOR THE EXPRESS WARRANTY ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. IN NO EVENT SHALL WE OR OUR AFFILIATES BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY NATURE, REGARDLESS OF THE FORM OF ACTION OR THEORY OF LAW, INCLUDING, WITHOUT LIMITATION, BREACH OF ANY OBLIGATION OR WARRANTY IMPOSED ON US HEREUNDER OR IN CONNECTION HERewith, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES IN ADVANCE AND EVEN IF A REMEDY SET FORTH HEREIN IS FOUND TO HAVE FAILED OF ITS ESSENTIAL PURPOSE. "CONSEQUENTIAL DAMAGES" SHALL INCLUDE, WITHOUT LIMITATION, LOSS OF USE, INCOME, OR PROFIT, OR LOSSES SUSTAINED AS THE RESULT OF INJURY TO ANY PERSON, OR LOSS OF OR DAMAGE TO ANY PROPERTY (INCLUDING, WITHOUT LIMITATION, PROPERTY HANDLED OR PROCESSED THROUGH THE USE OF THE PRODUCTS), DAMAGES OR LOSSES RESULTING FROM CLAIMS OF OTHER PERSONS AGAINST YOU, OR DAMAGES OR LOSSES SUSTAINED AS THE RESULT OF WORK STOPPAGE, OR REMOVAL AND REPLACEMENT COSTS AND COSTS OF LABOR. IN NO EVENT SHALL OUR LIABILITY ARISING IN CONNECTION WITH OR UNDER THIS WARRANTY (REGARDLESS OF THE FORM OF ACTION OR THEORY OF LAW) EXCEED THE AMOUNT PAID BY YOU FOR THE DEFECTIVE PRODUCT ONLY. THIS LIMITED WARRANTY PROVIDES YOUR EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT. If you do not agree with these terms, you may return the product within thirty (30) days of purchase for a full refund, provided the product is not opened, altered, or adulterated in any manner, less any shipping and handling charges of any sort. Use of the product, or retention of the product beyond thirty (30) days, constitutes your acceptance of this limited and exclusive warranty. No customer, distributor, or representative of ours 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 us.