

PRODUCT DESCRIPTION

APF Polyurethane 100 is a two component, high solids, aliphatic polyurethane coating. Offering a combination of unique performance properties, APF Polyurethane 100 produces a high-gloss protective film which is very hard, flexible and impact resistant. APF Polyurethane 100 features excellent resistance to abrasion and scratching. APF Polyurethane 100 exhibits durability in exterior applications, an easily cleaned surface, and excellent resistance to a broad range of chemicals. This product is formulated with an integral UV additive for excellent performance in sunlight and strong artificial light. A curing accelerator is available when rapid project turnaround is desired (required for Satin finish).

APF Polyurethane 100 is designed as a high-performance topcoat for protective coating and seamless flooring applications. It provides maximum cleanability and stain resistance when used as a finish coat in color chip flooring or epoxy-quartz flooring. Available in optional Satin finish (requires accelerator).

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. This product is not field-pigmentable.

PACKAGING

Supplied in complete A+B 1.5 gallon (5.7 L) or 15 gallon (56.8 L) total volume mixed units. Use only as complete mixed unit, do not break down into partial mixes. Mix ratio 2A : 1B

CONCRETE MOISTURE

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.

TECHNICAL DATA

Mixing Ratio by Volume	2A : 1B
VOC Clear	185 g/l
VOC Pigmented	197 g/l
Solids Content, by Volume, Pigmented	62%
Solids Content, by Volume, Clear	60%
Gloss (60 degrees) ASTM D523 - 14	90 - 95
Satin finish	50-60
Hardness ASTM D4366 (Konig)	122
Tabor Abrasion (100 gm. load 100 cycles, CS 17 wheel)	38 mg Loss
Flexibility ASTM D222	Passes 1/8-inch
Impact Resistance ASTM D2794	Passes 120 inch-pound direct and reverse
Re-coat Final Flooring Application	~5 - 6 Hours
Dry Times (77°F)	
Dry To Touch	~4 - 6 Hours
Recoat	~10 - 12 Hours
Light Traffic	~24 Hours
Full Traffic	~7 Days

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

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 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. 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 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. Proportion the amounts carefully and mix for two full minutes using a slow speed drill, scraping the bottom and sides of the mixing container. Material is normally applied as received but may be thinned with up to 15% MEK. Always thin the satin material to achieve a low application viscosity. Reseal partially used containers completely after use. Avoid contamination with moisture. B component will react with moisture.

APPLICATION

APF Polyurethane 100 may be applied by brush, roller or airless sprayer. Apply at 275-350 sq. ft. per gallon with quality 3/8- or 1/2-inch nap roller as a finish coat over primed concrete. May be applied up to 200 sq. ft. per gallon as a fill coat in aggregate-filled flooring systems using a rubber squeegee and back rolling with a 3/8-inch nap roller. If using the satin version of this material, 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

- Use only on primed substrates. Do not apply directly to concrete.
- Use of satin material **requires** the addition of accelerator during mixing.
- 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.

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 personal must read and fully understand product Safety Data Sheet before using. APF Safety Data Sheets are available at 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.