

PRODUCT DESCRIPTION

APF POLY 501 is a high-solids, two-component, water-based high-performance coating system. This unique product provides performance properties equal to conventional solvent-based catalyzed urethanes without the associated health and environmental problems. APF POLY 501 is VOC compliant in California. It offers substantial performance improvements over catalyzed water-based polyurethanes, including higher film build capabilities, improved chemical resistance.

APF POLY 501 provides a hard, durable coating that features good gloss, easy cleanability, and superior abrasion resistance. Resistance to yellowing from UV light is excellent. For exterior desert applications, an integral UV absorber package is added to ensure long-term chalk resistance and gloss retention.

Developed as a high-performance finish coat for seamless flooring and architectural applications, APF POLY 501 is ideal where strong odor cannot be tolerated.

APF POLY 501 is the ideal top coat for areas that require maximum gloss retention, ease of cleaning, and resistance to heavy foot traffic. Typical areas of application would include clean rooms, hospitals, concrete counter tops, and high traffic retail areas.

APF POLY 501 is also suitable for aircraft hangars, automotive repair facilities, and garage floors. It is available in matte & satin finishes.

ADVANTAGES

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

COLORS

Available only in Clear. Do not field tint.

PACKAGING

Supplied 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	96 g/l
Solids Content, by Volume	58.5%
Gloss (60 degrees) ASTM D523 - 14	90
Hardness ASTM D4366 (Konig)	175
Tabor Abrasion (1000 gm. load 1000 cycles, CS 17 wheel)	39 mg Loss
Re-coat Final Flooring Application	~5 - 6 Hours
Dry Times (77°F)	
Dry To Touch	~6 Hours
Recoat	~12 Hours
Light Traffic	~18 Hours
Full Traffic	~7 Days

Higher temperatures and lower relative humidity will shorten cure time. Lower temperatures and higher relative humidity 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 3. 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 3 hour period at 77°F. Higher temperatures reduce work time. In hot weather, it is advisable to mix smaller batches. Premix Part A before adding part B. Mixing ratio is 2 parts A to 1 part B. Add part B slowly while mechanically agitating part A with a slow speed drill. Mix for 2 full minutes until completely homogenized. Material cannot be properly mixed by hand. Use a small "squirrel cage" mixer for mixing small amounts.

APPLICATION

APF Poly 501 should be applied 200-350 sq. ft. per gallon by brush or roller. Use solvent resistant 1/2 or 3/8-inch nap roller. Do not allow to puddle or accumulate in joint areas. Applications heavier than 200 sq. ft. per gallon will create bubbles in the cured coating. If multiple coats are required, and the material has cured for more than 24 hours, de-gloss with a black ScotchBrite® janitorial abrasive pad or fine sanding screen.

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.

LIMITATIONS

- Material must be mixed mechanically for proper performance. Hand mixing is not acceptable.
- Application rate must be kept above 200 sq. ft. per gallon (8 mils) to avoid curing bubbles that occur in thicker applications.
- Applications over textured surfaces such as trowel-knock-down polymer concrete must be done with a 3/4" nap roller and pulled tightly to avoid leaving excessive product in recessed areas.
- Not formulated for pigmentation, do not add color.
- 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.

HANDLING & SAFETY

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

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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.