

PRODUCT DESCRIPTION

APF EPOXY 100 is a two-component water-based epoxy system that features ease of application, very low odor, no/low VOC, and excellent overall coating performance. This material cures blush-free over a wide range of temperatures and adheres tenaciously to a variety of properly prepared substrates including damp concrete.

USES

APF EPOXY 100 is used as a general purpose coating for concrete floors and as a primer under epoxy, polyurethane, and acrylic flooring materials. APF EPOXY 100 is recommended for coating warehouse and factory floors, coating automotive repair facilities, residential garage floors, and many other commercial and industrial maintenance applications. Because of its ease of application, APF EPOXY 100 is an excellent choice for do-it-yourself floor coating projects.

ADVANTAGES

- May be used as a primer and interior finish coat
- Easy to use
- Suitable for high moisture concrete substrates

SURFACE PREPARATION

Concrete must be cured for at least 7 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Surface may be damp, but standing water should be removed. Concrete should be shot blasted or diamond ground to achieve a surface minimum texture of ICRI 2. 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.

MOISTURE VAPOR CONDITIONS

Relative humidity tests for concrete substrate should be conducted per ASTM F2170, values must be $\leq 85\%$. If values are $> 85\%$ according to ASTM F2170, APF moisture remediation products should be utilized. Consult your APF sales professional for more information.

TECHNICAL DATA

Gloss 60°	ASTM D523	85 - 90
Taber Abrasion 1000 g load/1000 cycles/CS17		60 -65 mg loss
Adhesion to Damp Concrete ASTM D7234		Concrete Failure
Mixing Ratio by Volume		4 : 1
Solids Content by Volume		43.5%
VOC Clear		0 g/l
VOC Pigmented		60 g/l
Pot Life		~2 - 3 Hours
Cure Times (77°F/25°C)		
	Dry to Touch	~2 Hours
	Re-coat	~12 - 18 Hours
	Light Traffic	~18 - 24 Hours
	Full Cure	~7 Days
Higher temperatures and lower humidity will accelerate cure time Lower temperatures and high humidity will lengthen cure time.		

COLORS

APF EPOXY 100 is available in Clear and 16 standard colors.

PACKAGING

APF EPOXY 100 is supplied in complete A+B 1.25 Gallon (4.73 L) & 5.0 Gallon (18.93 L) total volume mixed units. Mix ration 4A:1B.

MIXING

Mix only that amount of material that can be used in a 2 - 3 hour period. In very hot weather it is advisable to mix smaller batches to ensure good flow and workability. Because color change can occur as mixed material advances into its pot life, when used as a pigmented finish coat, mix only that amount of material than can be used within 1 hour. Premix Part A before blending with Part B. Combining ratio is 4 Parts A to 1 Part B. Proportion the amounts carefully and mix for 2 full minutes using a low speed drill, scraping the bottom and sides of the mixing vessel. 15-20% clean potable water must be added to achieve a low application viscosity. A common mixing ratio is 4A:1B:1 water.

APPLICATION

APF EPOXY 100 is normally applied 200 - 350 sq. ft. per gallon by brush, roller or airless spray. If using as a primer and trapped air in the substrate creates bubbles, continued rolling will cause them to disappear. APF Epoxy 100 should normally be re-coated after an overnight cure period. However, if conditions are very cool and/or damp, 48 hours cure time should be allowed before re-coating. If the product cures longer than 72 hours, the surface should be lightly sanded before re-coating. When using a pigmented finish coat, keep a "wet edge" and do not attempt to roll over material that has

LIMITATIONS

- Exterior applications will exhibit chalking, discoloration and fading.
- Exterior applications of clear product are not recommended
- Will discolor over time when exposed to sunlight (UV) and/or under certain artificial lighting conditions.
- Do not apply in excess of recommended application thickness. Uneven curing may result.
- Not recommended for application over acid based concrete stains.
- Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

HANDLING & SAFETY

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. User must read and understand 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.