

PRODUCT DESCRIPTION

Epoxy 300 FLEX is a 100% solids, medium viscosity, flexible epoxy system. It has excellent elongation, hardness, and impact resistance. The material forms a tenacious bond to concrete and properly prepared metal. **Epoxy 300 FLEX Paste** is a thickened paste version for easy joint and crack filling. A **Fast Cure** version is available where cold weather cure down to 40°F or accelerated room temperature cure is required.

Epoxy 300 FLEX was developed for industrial joint and crack repair. Its combination of resilience and physical strength allows it to absorb the impact of heavy loads and steel wheeled traffic. When used as a coating system, it is especially well suited for applications where surface movement, vibrations, or thermal cycling may defeat the protection of a rigid material. Typical applications would include wood decks, suspended concrete slabs, mechanical rooms, and exterior aggregate-filled flooring. **Epoxy 300 Flex** may be used as a coating material for properly prepared aluminum and on steel ship decks.

USES

- Manufacturing
- Pharmaceutical
- Mechanical Rooms
- Warehouse
- Parking Structures
- Correctional Facilities
- Veterinary/Animal Care

ADVANTAGES

- Flexible underlayment for other floor systems
- Creates effective waterproofing membrane
- Bonds to steel for marine applications

COLORS

Clear & 10 Standard colors available.

PACKAGING

Supplied in complete A+B 1.5 gallon (5.7 L), 15 gallon (56.8 L) Mix ratio 2A : 1B. **APF Epoxy 300 FLEX Paste** is supplied in 0.75 (2.8 L) & 1.5 (5.7 L) gallon complete units.

TECHNICAL DATA

Mixing Ratio by Volume	2A : 1B
VOC Clear & Fast Cure Clear	2 g/l
VOC Pigmented & Fast Cure Pigmented	19 g/l
Solids Content, by Volume	100%
Hardness, Shore D (ASTM D-2240)	78
Tensile Strength psi (ASTM D-638)	1,100
Elongation, % (ASTM D-638)	60%
Compressive Strength, psi (ASTM D-695)	25,000
Yield Strength, psi (ASTM D-695)	9,850
Flexural Strength, psi (ASTM D-790)	9,680
Bond Strength to Concrete (ASTM D-4541)	>350 psi, concrete fails
Tensile Shear Strength to Steel ASTM D-1002	347 psi
Cure Time (77°F)	
	Dry to Touch ~12 Hours
	Light Traffic ~16 Hours
	Full Cure ~7 Days
	Fast Cure, Dry to Touch ~6 Hours
	Light Traffic ~12 Hours
	Full Cure 5 Days

Cure times are dependent on temperature and humidity

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. 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

APF EPOXY 300 FLEX is packaged in pre-measured and bulk units. Proper proportioning and mixing are critical for success. Mixing ratio is 2A : 1B. Do not attempt to hand mix. Be sure to move the drill around the mixing container scraping the sidewalls and bottom. Add color pack if required to A component and blend thoroughly before adding B component. Safety Blue-077, Safety Red-083, Safety Yellow-063 & White-000 require 1 quart color pack loading for adequate hiding and coverage. Add component B to component A and mix with medium speed drill mixer for three [3] minutes. Distribute material immediately after complete mixing.

APPLICATION

Apply with brush, roller or notched trowel.

As a coating:

Apply with squeegee, back roll with quality 1/4- or 3/8-inch solvent resistant roller cover. Apply in thin layer of 8 - 16 mils (0.20 - 0.40mm). Do not apply by dip-and-roll, distribute material on concrete surface immediately after mixing. Ensure that primed surface is pore and pin-hole free. Apply second coat if necessary to ensure pore-free surface for subsequent applications. For membrane, joint treatment applications, refer to appropriate APF Application Instructions.

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.

LIMITATIONS

- Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5°F over dew point.
- Will discolor and chalk in sunlight. Exterior applications not recommended.
- High humidity/low temperature will prolong cure time
- 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 with the exception of the Clear A Component only. Store away from heat sources. Store between 50°F and 85°F (10°C – 30°C). Do not allow to freeze.

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

APF 300 FLEX PDS 10.18.22

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.