EPOXY 300 FLEX

PRODUCT DATA SHEET

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 40ºF 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
- Retail
- Health Care & Institutional
- Correctional Facilities
- Veterinary/Animal Care

ADVANTAGES

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

COLORS

Clear & 18 Standard colors available.

PACKAGING

Supplied in complete A+B 1.5 gallon (5.7 L), 15 gallon (56.8 L) or 165 gallon (625 L) (clear only) total volume mixed units. 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 (77ºF)	
Dry to Touch	~12 Hours
Light Traffic	~16 Hours
Full Cure	~7 Days
Fast Cure, Dry to Touch	~6 Hours
Light Traffic	~12 Hours

Cure times are dependent on temperature and humidity

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. Steel surfaces should be prepared to SSPC-SP10 / NACE 2 Near-White Blast Cleaning standard.

EPOXY 300 FLEX

PRODUCT DATA SHEET

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. Premix both components for 2 minutes prior to blending. Drum units should be mechanically premixed with electric or pneumatic drum head mixer. 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. Bone-117, 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. May be sprayed with airless spray equipment.
For membrane, joint treatment applications, refer to appropriate APF Application Instructions.

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.

LIMITATIONS

- Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5ºF 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

SHELF LIFE

One [1] year from date of manufacture in original unopened container. Store away from heat sources between 50ºF and 85ºF (10ºC – 30ºC).

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

4565 W. Watkins Street, Phoenix, AZ 85043 • 800-562-4921 • 623-435-2277 • www.apfepoxy.com

For more information, please visit us at apfepoxy.com