

PRODUCT DESCRIPTION

APF Epoxy 400 Thixotropic is a high viscosity, 100% solids resin system used to grout various aggregate filled epoxy flooring systems. It is also used for cove base and wall rendering applications. APF EPOXY 400 Thixotropic provides an outstanding balance of physical strength and chemical resistance. APF EPOXY 400 Thixotropic has good clarity for use with color quartz, vinyl mosaic flake aggregates, and decorative architectural concrete in cove applications. EPOXY 400 Thixotropic will produce a uniform orange-peel finish stand-alone application. The pigmented material features high pigment loading for good substrate hide and color consistency when roller applied.

Available in a Fast Cure* hardener for faster application turn-around.

TYPICAL USES

- Manufacturing
- Pharmaceutical
- Warehouse
- Retail
- Health Care & Institutional
- Correctional Facilities
- Veterinary/Animal Care

ADVANTAGES

- May be used as a grout, finish coat or aggregate binder
- Special hardeners available for damp concrete
- Excellent UV resistance with optional UVR version

COLORS

Clear, 10 Standard Colors, Safety Red, Safety Yellow, and Safety Blue.

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.

*Fast Cure: A component stays the same, B component is modified for Fast Cure option.

TECHNICAL DATA

Mixing Ratio by Volume	2A : 1B
VOC Clear & Fast Cure Clear	70 g/l
VOC Pigmented & Fast Cure Pigmented	79 g/l
Solids Content, by Volume	100%
Hardness, Shore D ASTM D-2240	78
Tensile Strength psi (ASTM D-638)	6,230
Elongation, (ASTM D-638)	11%
Compressive Strength, psi (ASTM D-695)	19,501
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
Cure Time (77°F/25°C)	
Dry to Touch	~6 Hours
Light Traffic	~16 Hours
Full Cure	~7 Days
Fast Cure, Dry to Touch	
Light Traffic	~3 Hours
Light Traffic	~7 Hours
Full Cure	~5 Days
Cure Time (50°F/10°C) Fast Cure	
Dry to Touch	~18 Hours
Light Traffic	~30 Hours
Full Cure	~14 Days

Cure times are dependent on temperature and humidity

PACKAGING

Supplied in complete A+B 1.5 gallon (5.7 L), 15 gallon (56.8 L) units. Mix ratio 2A : 1B

MIXING

EPOXY 400 Thixotropic is packaged in premeasured and bulk units. Proper proportioning and homogenization are absolutely critical for success. Mixing ratio is 2A : 1B. Premix A component for 3 minutes prior to blending. Do not attempt to hand mix. Be sure to move the drill around the mixing container scraping the sidewalls and bottom.

MIXING, Cont.

Add color pack if required to A component and blend thoroughly before adding B component. Add one pint per 1.5 mixed gallons. 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.

For cove base applications, refer to APF Cove Base Application instructions for aggregate amounts.

APPLICATION

As a grout coat: Refer to APF System Application Instructions for complete information for each specific system.

Apply with squeegee, back roll with quality 1/4- or 3/8-inch solvent resistant roller cover. Apply in thin layer of 5 - 8 mils (0.15 - 0.20mm). Do not apply by dip-and-roll. Distribute material onto 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 cove base/wainscot/wall rendering applications, refer to System Application Instructions available at www.apfepoxy.com.

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.
- 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

EPOXY 400 Thixotropic PDS 01.04.24

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.