

PRODUCT DESCRIPTION

APF L.T.E. Low Temperature Epoxy is a specially formulated, 100% solids acrylated epoxy system designed to provide positive cure down to 35°F and extremely rapid room temperature cure. Its low viscosity contributes to easy handling, excellent substrate wetting and the development of strong bonds to a variety of substrates including damp concrete. APF L.T.E. Low Temperature Epoxy cures blush-free even under cold, damp conditions. This material possesses a desirable combination of flexibility, chemical resistance and good impact resistance at low temperatures. APF L.T.E. Low Temperature Epoxy was developed for use in cold weather exterior concrete repair and refrigerated industrial areas where conventional epoxy systems cannot cure completely or cure too slowly to be of practical use to the coatings contractor. Because it is ready for traffic in 2-3 hours at room temperature, APF L.T.E. Low Temperature Epoxy is very useful in rapid turnaround concrete repair and floor coating projects. Its low modulus characteristics make this material well suited for industrial joint and crack repair.

The material will amber and is not suitable as a decorative top coat.

USES

- Garages
- Machine Shops
- Warehouse

ADVANTAGES

- Allows application of to concrete that is below normal application temperatures.

COLORS

Clear, & 16 Standard Colors

PACKAGING

Supplied in complete A+B 1.5 gallon (4.73 L), 15 gallon (94.6 L). Mix ratio 2A : 1B

TECHNICAL DATA

Mixing Ratio by Volume	2A : 1B
VOC Clear	190 g/l
VOC Pigmented	204 g/l
Solids Content, by Volume	100%
Tensile Strength (ASTM D-638)	4,230
Ultimate Elongation, (ASTM D-638)	40%
Compressive Yield Strength, (ASTM D-695)	6,350 psi
Cure Time (77°F)	
	Dry to Touch ~90 Minutes
	Light Traffic ~2 - 3 Hours
Cure Time (35°F)	
	Dry to Touch ~14 Hours
	Light Traffic ~20 Hours

Higher temperatures reduce pot life and cure time, lower temperatures increase pot life and cure time.

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.

CONCRETE MOISTURE

Test for concrete moisture in accordance with ASTM F2170 – 19. If moisture is indicated to be in excess of 85%, do not apply. Consult APF Technical Service for further information.

LIMITATIONS

- Do not apply below 35°F (1.6°C.) Application below freezing may not bond due to ice crystals in concrete.
- Very short working time above 60°F (15.5°C.)
- A test patch should always be performed to verify adhesion.
- Coating will yellow when exposed to UV light

MIXING

APF L.T.E. Low Temperature Epoxy is packaged in premeasured and bulk units. Proper proportioning and homogenization are critical for success. Mixing ratio is 2A : 1B. Premix both components for 3 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 component B to component A and mix with medium speed drill mixer for three [3] minutes.

APPLICATION

Apply with squeegee, back roll with quality 1/4- or 3/8-inch solvent resistant roller cover. Apply in thin layer of 12 - 16 mils. 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.

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).

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 and safety glasses. User must read and understand Safety Data Sheet before using. APF Safety Data Sheets are available at www.apfepoxy.com.

APF L.T.E. Low Temperature Epoxy PDS 05.04.21

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.