

PRODUCT DESCRIPTION

APF CastorCrete Aliphatic Top Coat (TC) is a squeegee-applied cementitious aliphatic polyurethane topcoat installed at 10 mils (0.25 mm) to 20 mils (0.5 mm). It is resistant to UV exposure, impact, and abrasion, and stands up to steel wheeled cart traffic. It is unaffected by hot cooking oils, animal fats, and many solvents. APF CastorCrete Aliphatic TC has been formulated to compensate for the difference in the coefficient of thermal expansion of concrete. APF CastorCrete Aliphatic TC can withstand regular cleaning and water temperatures of up to 180°F (82 °C).

APF CastorCrete Aliphatic TC contains low VOCs, and is made with a natural, sustainable raw material.

APF CastorCrete Aliphatic TC is a rapid turnaround flooring solution to minimize downtime. APF CastorCrete CM, RT, SL, or TG maybe top coated with APF CastorCrete Aliphatic TC cementitious polyurethane top coat to create uniformity of performance and appearance.

USES

- Food & Beverage Manufacturing
- Meat, Poultry, Fish Processing
- Commercial Kitchens
- Pharmaceutical

ADVANTAGES

- Excellent UV resistance
- Excellent resistance to aggressive cleaning chemicals
- Capable of resisting extreme thermal cycling

COLORS

Available in Natural and 4 standard colors.

PACKAGING

Supplied in complete kits:

Natural is comprised of 3 components, A+B+D (aggregate).

Standard Color kits are comprised of 4 components, A+B+C (color pack) +D (aggregate).

Use only as complete kits, do not break down into partial kits. 1.75 Gallon complete mixed units. Use only as complete mixed unit, do not break down into partial mixes.

TECHNICAL DATA

Compressive Strength ASTM C579	8,500 psi
Tensile Strength ASTM C307	1,550 psi
Flexural Strength ASTM C580	2,700 psi
Shore D Hardness ASTM D2240	75 - 80
Tabor Abrasion (1000 gm. load 1000 cycles, CS 17 wheel)	32 mg Loss
Thermal Compatibility with Concrete ASTM C884	Passes
Coefficient of Thermal Expansion ASTM C513	1.1 x 10 ⁻⁵ in/in/°F minimum
VOC	<50 g/l
Flammability when Bonded to Concrete ASTM D635	Self-Extinguishing
Dry Times (77°F/25°C @ 10 mils WFT)	
Working Time	~10 - 15 Minutes
Dry to touch	~3 - 4 Hours
Full Service	~24 - 36 Hours

Higher temperature and lower humidity will shorten cure time.
Lower temperatures and higher humidity will increase cure time.

COVERAGE

Floor Thickness	Coverage Per 19 lbs. (8.62 kg) Kit
10 mils (0.25 mm)	280 sq. ft (26.0 sq. m.)
16 mils (0.41 mm)	175 sq ft (16.25 sq. m.)
20 mils (0.5 mm)	140 sq ft (13.0 sq. m.)

MIXING

Pour entire contents of components A,B, and C (color pack) into mixing container and mix for 30-60 seconds. While mixing, slowly add component D (aggregate). After all of the components are fully incorporated, mix for an additional 30-60 seconds using a mixer designed to mix heavy mortars. Multiple mixing containers are recommended to ensure an adequate supply of fresh material. DO NOT thin product, addition of thinners will void Manufacturer's warranty.

APPLICATION

Pour material onto the surface immediately after mixing is finished. APF CastorCrete Aliphatic TC can be applied can be spread with a notched squeegee and backrolled using a quality solvent resistant 3/8-inch nap roller cover to achieve the desired coverage rate. When placing the cementitious polyurethane top coat, keep a wet edge between mixes. Apply each batch within the working time of the prior batch. Failure to do this could result in a visible tie-in line.

LIMITATIONS

- Do not apply in direct sunlight.
- Do not apply below 45°F (7.2°C) or above 90°F (32°C).
- Use of kerosene or propane forced air heating equipment during application may cause discoloration and finish defects.

SHELF LIFE

Part A: 12 months at 50-85°F { 10-30°C}
Part B: 12 months at 50-85°F { 10-30°C}
Part C: 36 months at 50-85°F { 10-30°C}
Part D: 36 months at 50-85°F { 10-30°C}

*When kept at recommended storage conditions and in original unopened containers. DO NOT ALLOW TO FREEZE. Frozen material is unusable and must be properly disposed of.

HANDLING, SAFETY & STORAGE

- Avoid contact with skin; wear protective gloves. Application personnel must read and fully understand product Safety Data Sheet before using. APF Safety Data Sheets are available at www.apfepoxy.com.
- Store away from heat sources. Store between 50°F and 85°F (10°C-30°C). DO NOT FREEZE. Frozen material is unusable and must be properly disposed of.

APF Castorcrete_TC_A_PDS_07.22.25

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.