

CASTORCRETE® CM

PRODUCT DESCRIPTION

APF CASTORCRETE® CM is a trowel-applied cementitious polyurethane mortar installed at 1/8 inch (3.18 mm) to 1/4 inch (6.35 mm) thick and 4 inches (10.2 cm) to 6 inches (15.2 cm) high. Resistant to impact and abrasion APF CASTORCRETE® CM is unaffected by hot cooking oils, animal fats, and common solvents. APF CASTORCRETE® CM is formulated to compensate for the difference in the coefficient of thermal expansion of concrete. APF CASTORCRETE® CM has a constant service temperature of 200°F (93°C). APF CASTORCRETE® CM is available with an anti-microbial additive.

APF CASTORCRETE® is a rapid turnaround flooring solution for businesses that must minimize downtime. It can be returned to service in 24 hours after installation. APF CASTORCRETE® CM may be top-coated with CASTORCRETE TC, a cementitious polyurethane topcoat to create uniformity of appearance and performance. APF CASTORCRETE® CM is an environmentally friendly product. It contains low VOC, has very little odor, and is made with a natural, sustainable raw material.

With its unique combination of performance properties, APF CASTORCRETE® CM has become the polymer flooring of choice for the demanding service conditions found in food and beverage processing, commercial kitchens, chemical processing, pulp and paper plants, wastewater treatment facilities, and other demanding environments.

ADVANTAGES

- Resistant to harsh cleaning chemicals, hot water, steam
- Capable of resisting extreme thermal cycling
- Very low odor, easy to clean, sanitary

USES

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

COLORS

Available in 6 Standard Colors

TECHNICAL DATA	
Compressive Strength ASTM C579	8,500 psi
Tensile Strength ASTM C307	1,400 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/ºF minimum
Microbial (Fungi) Resistance ASTM G21	Passes #1
VOC	35 g/l
Flammability when Bonded to Concrete ASTM D635	Self-Extinguishing
Cure Time Dry to Touch	~12 Hours
Full Service	~24 - 36 Hours
Higher temperatures will shorten cure time will increase cure time.	e. Lower temperatures

PACKAGING

Supplied in complete A+B+C (color pack)+D (aggregate) - 32 lb (14.5 kg)_complete mixed units. Use only as complete mixed unit, do not break down into partial mixes.

COVERAGE

6-Inch Cove Height	Coverage Per 32 lbs. (14.5 kg) Kit
1/8-inch (3.2 mm)	30 lin. feet (2.9 l/m²)
1/4-inch (6.3 mm)	15 lin. feet (4.6 l/m²)

SURFACE PREPARATION

Concrete must be cured for at least 7 days and be clean, structurally sound, and free of wax, loose paint, or curing compounds. Concrete should be properly prepared to achieve a minimum surface texture of ICRI 3. Refer to ICRI Technical Guidelines 310-330 Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair.





SURFACE PREPARATION, Cont.

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.

CASTORCRETE® CM

Vacuum prepared concrete surface to remove all dust. Do not apply to previously coated surfaces; apply directly to concrete except when priming is necessary. Key-ways must be cut 1/4-inch (6.3 mm) deep by 3/16- inch (4.8 mm) wide, 6-inch (15.2 cm) from all perimeter walls, machinery pedestals, and both sides of all control joints, and at regular intervals spaced 10 feet (3 m) to 12 feet (3.7 m) apart throughout the flooring system. All floor drains, penetrations, transitions and termination points must have a 1/4-inch (6.35 mm) deep by 1/4-inch (6.35 mm) wide key-way.

Never feather edge APF CASTORCRETE® CM, always turn it into a key-way.

MIXING

Pour entire contents of parts A, B, and C (color pack) into mixing container and mix for 30 seconds. While mixing, slowly add part D (aggregate). After all of the components are fully incorporated, mix for an additional 30 seconds. Mixing should be done with a COLLOMIX® CX 44 DUO Set with MKD 140 HF paddles, or a KOL type bucket mixer, or any other mixer designed to mix heavy mortars. Place mixed material immediately. 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

In typical applications, APF CASTORCRETE CM is applied directly to the concrete without a primer. However, if the concrete is damaged or excessively porous, a scratch coat of APF CASTORCRETE CM may be applied before final application. A test area is recommended to determine if a primer is necessary. Heavily damaged surfaces may be repaired and leveled with a scratch coat of CASTORCRETE product. Allow scratch coat to cure for a minimum of 6 hours (at 70° before applying top coat.

For small areas, APF CASTORCRETE CM can be spread and finished with a steel trowel. Place each batch within the working time of the prior one. Failure to do this could result in a visible tie-in line. Excessive toweling or rolling can bring more resin to the top and reduce slip resistance.

SHELF LIFE

One [1] year from date of manufacture, in original unopened container. Store away from heat sources. Store between 50°F and 85°F (10°C – 30°C). Do not allow to freeze. Frozen material is unusable and must be properly disposed of.

LIMITATIONS

- Will yellow and fade from UV exposure.
- Do not apply in direct sunlight.
- Do not apply below 45°F (7.2°C) or above 90°F(32°C).

HANDLING & SAFETY

Avoid contact with skin; wear protective gloves. Application personal must read and fully understand product Safety Data Sheet before using. APF Safety Data Sheets are available at www.apfepoxy.com

APF CASTORCRETE CM PDS 06.02.22

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, in writing, within five (5) working days concerning 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

