

# K A U F M A N

PRODUCT  
INFORMATION

KAUFMAN  
PRODUCTS  
INC.

3811 CURTIS  
AVENUE

BALTIMORE,  
MARYLAND  
21226-1131

410-354-8600  
800-637-6372  
www.kaufman  
products.net

## K CRETE

### Description

K Crete is a very rapid setting, non-shrinking, pourable cementitious grout that is chemically engineered for use in both interior and exterior applications. K Crete develops exceptional compressive strength and bond strengths, and provides positive expansion to lock itself in place.

K Crete may be used for leveling machinery, bearing plates, and columns, as well as general patching, plugging, and repairing of concrete and masonry.

### Uses

U K Crete whenever a fast setting, high strength, durable, water resistant grout is required. Some examples include:

- Setting Anchor Bolts & Dowels: Where High Strength and Speed are Required for Permanent Anchoring
- Anchoring Posts: Secure Setting for Railings, Bannisters, Posts, Poles, Partitions, Stanchions, etc.
- Bonds Solidly and Holds with a Vise-Like Grip
- Repairing Minor Voids in Concrete
- Leveling Machinery, Bearing Plates, and Columns:

### Advantages

- Sets in 8-10 minutes at 72 degrees F
- Not Affected by Water-May be Used in Both Interior and Exterior Applications
- Expansive Properties Lock in K Crete Mechanically
- Excellent Bond Strength
- High Compressive Strength
- Ready to Use-Just Add Water
- Pourable
- Chloride Free Formulation
- Special Aggregates to Prevent ASR
- General Purpose Repair Compound
- Non-Gypsum Formulation
- Non-Metallic

### Packaging/Yield

10 lb. pail	.09 ft <sup>3</sup>
50 lb. pail	.45 ft <sup>3</sup>

### Compliances

ASTM C-1107, Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)

### Physical Properties - @ 75°F

Vicat Set Times (ASTM C-191/AASHTO T-131)

Initial, 25 mm	8-10 minutes
Final, 25 mm	14-18 minutes
Color	Light Gray

Compressive Strength,	1 hours	1,100
psi. (ASTM C-109)	1 day	5,500
	7 days	6,000
	28 days	7,000

Slant Shear Bond Strength, psi.		
(ASTM C-882)	1 day	1,500
	7 days	2,100

Early Age Height Change  
+.12%

(ASTM C-827, maximum 4%)

Height Change	28 Days	+.15%
Moist Cured	(ASTM C-1090)	

VOC Content	0 grams/liter
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### Directions

#### Surface Preparation

Remove all loose, crumbly, and weak concrete surfaces. Dampen surrounding area to achieve saturated surface dry conditions (SSD). Do not apply when puddles are present. Mix no more K Crete than you can use in 8-10 minutes.

#### Mixing

Mix with 3.36 quarts of potable water to a batter-like consistency that is fluid enough to pour but not watery. Use a low speed drill and paddle mixer and mix for no more than 3 minutes. Do not mix more than can be placed within 8-10 minutes. Add water first, followed by adding K Crete. Do not over-mix or re-temper. For overhead and vertical work, omit as much water as possible to create the desired consistency.

After mixing K Crete, use right away and clean equipment before it hardens. Do not ever add plasticizers, accelerators, retarders, or any other ingredients besides potable water unless advised by Kaufman Products in writing.

### Application

**Anchor Bolts:** Drill hole in concrete large enough to accommodate head of bolt and washer with at least 1/2" on sides of bolt. The hole should be at least 2" deep. Moisten hole with water, lay bolt in and fill cavity with cement.

### **Leveling Machinery, Bearing Plates, and Columns:**

After setting in proper position and plumbing, the anchor bolts are tightened, and K Crete is then solidly packed between bearing surface and plate from one side only to insure no voids. Make certain space is completely filled and free of air pockets.

If a higher performance non-shrink grout is desired, consider using as an alternative either SureGrout or SureGrout 5000.

### **Anchoring: Post, Poles, Ornamental Iron, Etc.:**

Drill the hole at least 2" deep and large enough to accommodate pole with an annular space of at least ½" surrounding it. To ensure proper bond strength, roughen the inside of the hole, and remove all dust using oil-free compressed air. Dampen the hole to saturated surface dry conditions (SSD) and remove any excess water. Place the post in the hole and fill the void with K-Crete. Fill high enough so that water will run off and not collect on anchor. The post should be steadied for a few minutes until K Crete becomes firm enough to take hold. Always use the correct size washer for the hole size. To increase pull out strength, increase the depth of the hole and length of the anchor.

### **Patching Concrete, Asphalt and Masonry:**

Apply by hand or trowel. K Crete may be mixed with varying amounts of potable water to create the desired consistency. Ordinarily, K Crete is flowable, so cut back on the water content for overhead and vertical patching applications. Make certain to not trowel K Crete excessively.

Fill holes with properly mixed K Crete and wait a minimum of one hour before walking on it. For floor and road surfacing a thin slurry coat brushed into the surface is recommended, prior to the heavier patching thickness. Thin patches are not recommended. For the best results make

a 2" vertical cut with a masonry saw around the perimeter of the damaged areas.

### **Shelf Life**

12 months from manufacture date, when stored unopened under recommended conditions. Store between 40 and 85°F and at low humidity. Keep containers tightly closed.

### **Precautions**

K Crete will attack and degrade uncoated aluminum. Aluminum that will be exposed to K Crete must be coated and sealed both inside and out prior to contact with the K Crete. Untreated aluminum will cause uncontrolled expansion of K Crete resulting in failure of the grout. K Crete is not intended as an anchoring-cement for use in overhead and vertical applications with a sustained load. Do not re-temper once it has set as this will destroy the strength. A faster set may be obtained by heating the gauging water and slower sets can be realized by using cold water. For thin patches, replace ½ gallon of water with SureBond for better adhesion and longer life. Do not apply to frozen or frosted masonry without thawing out first. Read the complete Safety Data Sheet and *Concrete Substrate Preparation data sheet* before using. The hole to be filled should not be drilled within 4" of the corner/edge of the concrete slab. Follow all American Concrete Institute guidelines for both hot weather and cold weather concrete. Follow the USB codes regarding the appropriate anchors, anchor depth, and hole size, or consult with an engineer for proper guidance. K Crete will set faster in hot weather conditions and slower in colder conditions. It is acceptable to pre-condition K Crete and use either warm water or chilled water to control the set time in the field.

### **Technical Information**

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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