



Pocono Fabricators

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PRE-KRETE FS-16 TECHNICAL DATA SHEET

Pocono Fabricators' Pre-Krete FS-16 is a non-shrinking, fast-setting, hydraulic calcium aluminate cement containing 40% hydraulic binder, 40% silica and 20% inert aggregates. FS-16 is an extremely versatile product with many uses in all industries. It is primarily used as a repair material for concrete where high compressive strengths are required in a limited amount of time. It is also used to set and anchor machinery or equipment.

APPLICATIONS

Repairs:

Floors

Sidewalks

Curbs

Walls

Foundations

Buildings

Culverts

Drains

Ditches

Highways

Bridges

Manholes

Sewers

Swimming Pools

Anchoring:

Machine Bases

Dowels

Bolts

Posts

Parking Meters

Railings

Poles

Sign

INSTALLATION GUIDELINES

The following specifications are general installation procedures that cannot include all the variables associated with field applications. It does not contain the detailed information necessary to successfully install a Pre-Krete system. It serves only as a guide to assist in the better understanding of Pre-Krete FS-16. An experienced Pre-Krete applicator is familiar with the system. Their product knowledge and experience will ensure the best results under the most adverse field conditions. If you are not familiar with a qualified applicator in your area, contact the factory.

SURFACE PREPARATION

If patching or repairing an existing concrete surface, it must be clean, dry and structurally sound. Remove oil, grease or loosely bonded contaminants, coatings or linings. Grit blasting, chemical or mechanical cleaning can be utilized to remove the contaminants.

MIXING

A 50 lb. bag of Pre-Krete requires approximately 3/4 gallon of water. Measure the water to insure the correct amount. If too dry, add extra water but keep the mix stiff and dry. Using too much water will slow the setting time, reduce the strength and may cause cracking. Use clean cool water. Scale

down water accordingly if using less than a full bag. Once mixed with water, use within 10 minutes. Never re-wet or re-temper. Mix 1 bag of FS-16 at a time.

APPLICATION

For repairing large holes and cracks in concrete, square up the hole to provide a form for the FS-16 patch. Remove all dirt and debris from hole. Dampen concrete well but don't leave any standing water. When repairing holes deeper than 1" place the Pre-Krete into the hole and tamp to remove air pockets. Finish with a steel trowel or wooden float. Keep Pre-Krete within the confines of the hole. Do not allow it to overlap the edges. Do not allow the patch to be higher than the surrounding area. For best results, spray on a concrete curing compound. Allow the patch to dry until hard. At 70°F, allow 3 hours for curing. Colder temperatures slow up the setting time. From 40°F to 70°F, allow up to 6 hours.

When repairing a shallow hole less than 1" deep, or when featheredging, we recommend a bonding agent designed for bonding new concrete to old and also use a concrete curing compound which can be sprayed on the fresh FS-16 patch. It will help to seal in the moisture. Contact Pocono Fabricators for prices on bonding and curing compounds.

For anchoring, make sure the hole is at least 2" in diameter larger than the object being anchored. When anchoring large objects such as posts, make the hole 6" in diameter larger than the post. Mix same as above. Tamp and rod to remove air pockets. Allow to cure.

TECHNICAL DATA

- Compressive Strength – ASTM C - 109
 - 3 hours - 2,300 lbs.
 - 24 hours - 2,900 lbs.
 - 7 days - 5,900 lbs.
- Setting Time -- ASTM C-266-65
 - Initial set - 14 minutes
 - Final set - 30 minutes
 - Vehicular traffic - 3 hours
- Shrinkage -- ASTM C-596-67
 - Maintains original volume - less than 1/10 of 1% after 28 days.
- Freeze/Thaw -- ASTM C-290
 - 300 Cycles - 10% salt solution - Retained 90% of original strength.
- Density / Coverage: 140 lbs./cu.ft. / A 50 lb. bag will cover 4.2 sq. ft. @ a 1" thickness
- Color: Light Gray
- Shelf Life: 1 Year
- Packaged in 50-pound paper sacks @ 70 per skid