



**Pocono Fabricators' Pre-Krete® FS-16** is a non-shrinking, fast-setting, hydraulic calcium aluminate cement. 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
- Signs

## TECHNICAL DATA

- Compressive Strength – ASTM C - 109
  - 3 hour - 2,300 lbs.
  - 24 hours - 2,900 lbs.
  - 7 days - 5,900 lbs.
- 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 - Retains 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 bags per skid
- Setting Time -- ASTM C-266-65
  - Initial set - 14 minutes
  - Final set - 30 minutes
  - Vehicular traffic - 3 hours

## INSTALLATION GUIDELINES

The following specifications are general installation procedures that cannot include all the variables associated with field applications. It serves only as a guide to assist in the better understanding of Pre-Krete FS-16. If you are not familiar with this type of application, contact the factory.

— Continued —



## SURFACE PREPARATION

If patching or repairing an existing concrete surface, it must be clean, dry and structurally sound. Remove oil, grease and/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. Using too much water will slow the setting time, reduce the strength and may cause cracking. Use clean cool potable 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. If mixing more than 1 bag of FS-16 at a time, be certain that the quantity mixed can be placed and finished in 10 minutes.

## 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. Do not 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 Pocono Fabricators' Concrete Sealer 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 4 - 6 hours.

When repairing a shallow hole less than 1" deep, or when featheredging, we recommend Pocono Fabricators' Em-Cryl-600 acrylic latex bonding agent designed for bonding new concrete to old. Also use Pocono Fabricators' Concrete Sealer curing compound which can be sprayed on the fresh FS-16 patch.

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.

## MATERIAL SAFETY DATA SHEETS (MSDS)

Current MSDS are available on our website: [www.pre-krete.com](http://www.pre-krete.com)

## NOTES:

