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Pocono Fabricators Pre-Krete G-8 is an aluminous hydraulic cement designed to provide effective corrosion and/or abrasion resistance against various acids and chemicals commonly found in industry. Pre-Krete G-8 is used to line new equipment, or repair and restore existing equipment. It is recommended that the specific application be discussed with the factory or an authorized Pre-Krete representative prior to the installation. This will ensure the system's ability to perform as expected.

COMMON APPLICATIONS

- Stacks
- Breechings
- Ductwork
- Precipitators
- Process Equipment
- Flooring
- Potable Water Heaters
- Fire Training Facilities
- Pipe
- Potable Water Tanks
- Condensate Tanks
- Coal Handling Equipment

COMMON MARKETS

- Power Generation
- Pulp and Paper
- Mining
- Waste Treatment
- Chemical Process
- Petro Chemical
- Cement Manufacturing
- Metal Manufacturing
- Food Process

TECHNICAL DATA

Compressive Strength (ASTM C-109-86)

1 Day Cure - 5,250 psi

3 Day Cure - 8,075 psi

28 Day Cure - 12,100 psi

Tensile Strength (ASTM C-190-85)
3 Day Cure - 703 psi

7 Day Cure - 754 psi

28 Day Cure - 844 psi

- Wet density / Coverage 140 lbs. per cubic foot / 4.2 sq. ft. per 50 lb. bag @ a 1" thickness.
- Coefficient of Expansion (in./in./°F) 6.4 x 10⁻⁶
- Thermocycling G-8 applied to steel, heated to 350°F and plunged into 40°F water @ 100cycles with no adverse effects.
- Maximum temperature: 1000°F (after special curing)
- Color: Gray
- Packaged in 50-pound paper sacks @ 70 bags per skid.

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 G-8. An experienced Pre-Krete applicator that is familiar with the system 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. Detailed Application Guides/Specification are available on our website – www.pre-krete.com.

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SURFACE PREPARATION

Substrate (concrete or steel) must be clean, dry and structurally sound, free of any oil, grease or loosely bonded contaminants, coatings or linings. Grit blasting, chemical or mechanical cleaning can be utilized to remove the previously referenced conditions. It is not necessary or recommended to produce a bright or white metal surface. A rusted surface will enhance the mechanical bond, provided there is no lamination of the oxidized metal.

MIXING

Pre-Krete is mixed at the rate of $\frac{3}{4}$ to 1 gallon of water per 50-pound bag. The amount of water may vary depending on weather conditions. When hand trowling, the consistency should be that if you place Pre-Krete in the shape of a golf ball in your hand and press down lightly, then turn your hand over – the Pre-Krete should stick to your fingers.

APPLICATION

Pre-Krete can be trowel applied over a non-reinforced surface or expanded metal. It may be gunned (wet or dry) over any surface with a metal anchoring system. The thickness of the Pre-Krete is dependent on the operating conditions of the equipment. The wire mesh anchoring system must be covered by a minimum 1" of Pre-Krete.

METAL REINFORCEMENT

Metal reinforcement is required when thicknesses are 1" or greater. This will enhance the installation and is required in larger structures. Suggested reinforcements are:

- 1. Pre-Krete applied at $\frac{3}{4}'' 1 \frac{1}{2}''$ thickness: $\frac{3}{4}'' \times 13$ -gage carbon steel, unflattened, standard diamond pattern expanded metal lath. The expanded metal is secured tight to the substrate on 12" centers.
- 2. Pre-Krete applied at a thickness of $1-\frac{1}{2}$ " and greater: 2" x 4" or 4" x 4", 14 or 12 gage, welded wire fabric anchored on 12" centers at a distance from the substrate of $\frac{1}{2}$ " to $1-\frac{1}{2}$ " dependent on the thickness of the Pre-Krete.

CURING

All Pre-Krete linings must be properly cured. There are four recommended curing options that include curing compound, moisture cure, immersion cure, and heat-up procedure. Contact the factory for the method best suited for your application. Concrete Sealer curing compound must not be used in potable water applications. Temperature during curing must be maintained from 40°F to 90°F. Curing times: initial set is approximately 2 - 4 hours, final set is approximately 6 hours.

MATERIAL SAFETY DATA SHEETS (MSDS)

Current MSDS are available on our website: www.pre-krete.com

NOTES:

