



SILATEC CAM

CALCIUM ALUMINATE MORTAR

MANUFACTURER

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DESCRIPTION

Calcium Aluminate Mortar is a blend of quartz silica, fibers and pure fused calcium aluminate cement. The mortar shall be hand or spray applied. A nominal thickness of ½" up to 2". Thicker applications can be achieved by applying successive lifts. Uses include repairing concrete walls and ceilings, lining brick or concrete man holes and lift stations and horizontal pipe repair. Silatec CAM can be especially useful when coatings are required at early ages. CAM may be coated in as little as 12 hours. (Always consult with coating manufacturer).

SURFACE PREPARATION

Remove all loose concrete, brick or mortar from affected area by mechanical means. Surfaces shall be free of paints, oils, dirt, dust, curing compounds, sealers, form release agents or any material that would prevent mortar from coming into contact with the open pores of the concrete. Create a minimum surface profile for the system specified in accordance with the methods described in ICRI No. 03732 to achieve profile CSP-3 to CSP-9. Shot blasting, sandblasting, chipping and high pressure water blasting are all excellent surface preparation methods. Dampen area to achieve a saturated, surface dry condition (SSD). Leaving no puddles.

MIXING & APPLICATION

NOTE: [The material will flash set if contaminated with Portland cement.] Make sure all equipment for mixing, pumping, etc. are free from any Portland cement or products that contain Portland cement. Begin by adding 1 gallon clean water to mixing vessel and then add 1 bag (60#) Silatec CAM. Adjust water as needed (up to 1.25 gallons) to provide proper consistency for placing by hand or pump sprayer. Apply in successive lifts to desired thickness. Use brush, float or trowel to achieve desired texture.

CURING

Damp curing or use of a curing compound, that complies with ASTM C-309, may be necessary to prevent rapid drying of mortar. Curing compounds may need to be removed prior to coating. Replace manhole cover as soon as troweling is finished.

LIMITATIONS

Ambient and surface temperatures must be 38° F and rising during application. Protect from rain until initial set has been achieved. To avoid flash setting, Do Not contaminate Silatec CAM with Cemtec Hydraulic cement, Silatec MSM, Rapid Cure Vertical or ordinary Portland cement.
Minimum thickness: ½ inch
Maximum thickness: 4 inches in successive applications.

STORAGE & HANDLING

Shelf life: 12 months in the original unopened container.
Storage: Store in a dry area away from direct sunlight. The product should be conditioned to between 40° F and 95° F before use.

PRECAUTIONS

Contains Calcium Aluminate cement; avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for at least 15 minutes. Consult a physician immediately. Keep out of reach of children. Contains free silica - DO NOT breathe dust. May cause delayed lung injury. Follow OSHA safety and health standards for crystalline silica (quartz).
Spills: Collect in appropriate container. Uncured material may be removed with water.
Disposal: Dispose of in accordance with local, state or federal regulations.

PACKAGING

60 lb. / 27 kg multiwall bags.



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TECHNICAL DATA

COMPRESSIVE STRENGTH

ASTM C-109 (modified)

| | Air cure | moist cure |
|--------|----------|------------|
| 12 Hr. | 4500 PSI | 3600 PSI |
| 24 Hr. | 5500 PSI | 5150 PSI |
| 7 Day | 7400 PSI | 7250 PSI |
| 28 Day | 9600 PSI | 9000 PSI |

SHRINKAGE

ASTM C-596

| | % |
|--------|----------|
| 7 Day | (0.0100) |
| 14 Day | (0.0165) |
| 28 Day | (0.0310) |

FLEXURAL STRENGTH

ASTM C-293

| | |
|--------|----------|
| 24 Hr. | 655 PSI |
| 7 Day | 820 PSI |
| 28 Day | 1900 PSI |

SPLITTING TENSILE

ASTM C-496

| | |
|--------|-----|
| 28 Day | 800 |
|--------|-----|

FREEZE/THAW

ASTM C-666

300 cycles – No Damage

BOND STRENGTH

ASTM C-882 (modified)

| | |
|--------|----------|
| 28 Day | 3300 PSI |
|--------|----------|

Unit Weight 127.2 lbs/cf