



MANUFACTURER

A.W. Cook Cement Products
242 Amy Industrial Lane Hoschton,
GA. 30548
Phone (706) 654-3677
Fax (706) 654-3662

DESCRIPTION

HITEC 100 is a blend of calcium aluminate aggregate, fibers and pure fused calcium aluminate cement. The mortar shall be hand or spray applied. A nominal thickness ½" up to 2" in depth. Thicker applications can be achieved by applying in successive lifts. Uses include repairing concrete walls and ceilings, lining brick or concrete man holes and lift stations and horizontal pipe repair. Hitec 100 can be especially useful when coatings are required at early ages. Hitec 100 may be coated in as little as 12 hours. (Always consult with coating manufacturer). HITEC 100 can with stand temperatures up to 1800°F

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. Shot blasting, sandblasting, chipping and high pressure water blasting are all excellent surface preparation methods. Smooth concrete surfaces may require etching with muriatic of sulfamic acid, then thoroughly cleaned with pressure washer. 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 (65#) HITEC 100. Adjust water as needed (up to 1.25 gallons) to provide proper consistency for placing by hand or pump sprayer.

HITEC 100

100% Pure Fused Calcium Aluminate Aggregate Mortar

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 HITEC 100 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. DO NOT breathe dust. May cause delayed lung injury.

Spills: Collect inappropriate container. Uncured

material may be removed with water. **Disposal:**
Dispose of in accordance with local, state or federal
regulations.

PACKAGING

65 lb. multiwall bags.

TECHNICAL DATA

COMPRESSIVE STRENGTH

ASTM C-109 (modified)

Air cure

24 Hr. 5000 PSI

7 Day 7200 PSI

28 Day 9000 PSI

FLEXURAL STRENGTH

ASTM C-293

24 Hr. 600 PSI

7 Day 770 PSI

28 Day 1800 PSI

SPLITTING TENSILE

ASTM C-496

28 Day 800

FREEZE/THAW

ASTM C-666

300 cycles – No Damage

SHRINKAGE

ASTM C-596 %

7 Day (0.0101)

14 Day (0.0150)

28 Day (0.0300)

BOND STRENGTH

ASTM C-882 (modified)

28 Day 3000 PSI

MODULUS OF ELASTICITY

ASTM C-469-02

28 Days 3,851,100 PSI

Unit Weight 165 lbs/cf