GEOPOLYMER SOLUTIONS, LLC

ACID RESISTANT MORTAR

A-SERIES

Cold Fusion Concrete (CFC®)

CFC® A-Series Mortar is an acid resistant mortar with resistance to most chemicals. It is designed to resist all acids except hydrofluoric.

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FEATURES

- Resistant to all acid exposures at concentrations ranging from 0.1-percent to 98-percent
- Resistant to all acids except hydrofluoric.
- Resistant to hydrocarbons, chlorides, and sulfate exposure degradation.
- Resistant to solvent exposure.
- Green Technology.
- Can be colored.
- Fiber reinforced (micro).
- Interior and exterior applications.
- Resistant to freeze and thaw cycles.
- Can be used in hot or cold climates.
- Improves corrosion protection.

DIRECTIONS FOR USE

Prep - Pour desired amount of dry mortar into bucket, wheelbarrow etc.
Place unused mortar mix back into bucket and seal. Add water and mix. Use from 8% to 13% water based upon the mass of dry mortar.
How To Apply - Fill the Joints. Scoop mortar onto a brick, trowel or hawk, hold it up even with a bed joint, and push the mortar against the back of the joint with the tuck-pointing trowel. Eliminate voids with a few slicing passes of the trowel's edge, then add more mortar until the joint is filled.
CLEANS UP WITH SOAP & WATER WHEN COHESIVE, AND JACKHAMMERS WHEN PROPERLY CURED.

RECOMMENDED USES

A-SERIES is successfully utilized in the Petrochemical, Fertilizer, Food & Beverage, Mining, and Military Industries, and the Oil & Gas Industry due to its chemical resistance and complete resistance to chloride and sulfate attack.

PACKAGING, SHELF LIFE COVERAGE

- CFC® A-SERIES Mortar is supplied in 5 gallon Ready-to-Use Buckets.
- CFC® A-SERIES Mortar has a shelf life of 2 years.
- CFC® A-SERIES Mortar will install approximately 100 bricks per 5 gallon container.

100% eco friendly

CHARACTERISTICS

CFC® Acid Resistant Mortar		LOW RANGE	HIGH RANGE
BULK DENSITY, PCF	ASTMC138	133	138
COMPRESSIVE STRENGTH, PSI	ASTMC579	7500	10000
BOND STRENGTH, PSI	ASTMC321	1780	2000
TENSILE STRENGTH, PSI	ASTMC307	3400	5250
YOUNG'S MODULUS, PSI	ASTMC469	$4.77X10^6$	$6.8X10^6$
POISSON'S RATIO	ASTMC469	0.02	0.25
COEFFICIENT OF EXPANSION, 10^{-6}IN/°F		1.86	3.05
MAX. SERVICE TEMPERATURE, °F		1000	1600
WATER ABSORPTION, %	ASTMC413	0.04	0.11
WORKING TIME, MINUTES	ASTMC308	120	180
45% SULFURIC ACID, % MASS LOSS	ASTMC279	1.00	2.20
57% NITRIC ACID, % MASS LOSS	ASTMC279	0.00	0.00
75% HYDROCHLORIC ACID, % MASS LOSS	ASTMC279	0.00	0.00
75% ACETIC ACID, % MASS LOSS	ASTMC279	0.50	0.88
98% SULFURIC ACID, % MASS LOSS	ASTMC279	0.00	0.00
85% PHOSPHORIC ACID, % MASS LOSS	ASTMC279	0.00	0.00
50% HYDROFLUORIC ACID, % MASS LOSS	ASTMC279	5.00	24.80