



MANUFACTURER

A.W. Cook Cement Products
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DESCRIPTION

Horizontal Pipe Lining Mortar is a blend of Portland cement, silica sand, polymers, is fiber reinforced and contains a corrosion inhibitor. The mortar is specifically designed to repair and strengthen concrete, brick and steel pipe. The product is applied by centrifugal casting, by hand, low pressure spray or by the shotcrete method. Coatings may be applied after curing for 24 hours at 70 degrees F. (consult coating manufacturer)

SURFACE PREPARATION

Remove all loose material, dirt, loose pieces of metal, etc. through high pressure water blasting. Fill all voids with CemTec Silatec Concrete Mix flush with the surface of the host pipe. Apply the mortar to a saturated surface dry (SSD) for concrete and brick pipe.

MIXING & APPLICATION

Mix 1 gal. water per 50 lb. bag for hand, spray, wet shotcrete method and centrifugal casting. The water may be adjusted to enhance workability. Adjust water at the nozzle for the dry shotcrete method.

CURING

Damp curing or use of a curing compound, that complies with ASTM C-309, may be necessary to prevent rapid drying of mortar. Close up pipe to limit air movement. Curing compounds may need to be removed prior to coating.

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 Horizontal Pipe Mortar with Cemtec Hydraulic cement, Rapid Cure Vertical or Silatec CAM.

Minimum thickness: ½ inch

HORIZONTAL PIPE LINING MORTAR

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 Portland cement-avoid eye contact or prolonged contact with skin, Wash thoroughly after handling. In case of eye contact, flush with 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). See material safety data sheet for detailed information.

Spills: Collect in appropriate container. Uncured material may be removed with water.

Disposal: Dispose of in accordance with local, state or federal regulations.

PACKAGING

50 lb. multiwall bags.

TECHNICAL DATA

COMPRESSIVE STRENGTH

ASTM C-109

24 Hr. 4000 PSI

7 Day 6000 PSI

28 Day 8000 PSI

SHRINKAGE

ASTM 596

28 Day (0.0030%)

BOND STRENGTH

ASTM C-882 (modified)

28 Day 2650 PSI



HORIZONTAL PIPE LINING MORTAR

FLEXURAL STRENGTH

ASTM C-293

24 Hour 740 PSI

7 Day 850 PSI

28 Day 1600 PSI

SPLITTING TENSILE

ASTM C-496

24 Hour 500 PSI

28 Days 800 PSI

CHLORIDE PERMEABILITY

ASTM C-1202

28 Day 275 Coulombs

MODULUS OF ELASTICITY

ASTM 469-02

24 Hour 3,333,333

28 Day 4,233,333

FREEZE/THAW

ASTM C-666

300 cycles Relative Dynamic Modulus (%) 94

Unit Weight 128.3 PCF

UNDERWATER ABRASION

ASTM C-1138

Control: Volume loss after 6 cycles 6.17%

HP Lining Mortar: Volume loss after 6 cycles 3.30%