



# HORIZONTAL PIPE LINING MORTAR

### MANUFACTURER

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### DESCRIPTION

Horizontal Pipe Lining Mortar is a blend of Portland cement, silica sand, polymer modified and contains corrosion inhibitors. The mortar is specifically designed to be centrifugally cast inside of existing underground, concrete, brick and galvanized pipe. HP Lining Mortar provides an extremely dense matrix and may accept most coatings in 24 hours when properly cured at 70° F (Always 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

Add clean water at a rate of approx.. 1 gallon per 50 lb. bag. The water may be adjusted down or up for proper consistency. Do not over water. Apply the material by pumping to the spin casting device and applying the material to the proper thickness using multiple passes if needed.

### 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

### 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 9000 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 400 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 – No Damage

Unit Weight 128.3 PCF

### UNDERWATER ABRASION TEST

ASTM C-1138

Control: Volume loss after 6 cycles 6.17%

HP Lining Mortar: Volume loss after 6 cycles 3.30%