

DESCRIPTION: CR Mortar is a sanded, calcium aluminate cement based concrete repair mortar which protects sewer pipe and manholes from hydrogen sulfide-induced biogenic corrosion attack. CR Mortar is formulated to be applied with a trowel or wet sprayed.

USES: CR Mortar can be used for:

1. Repair of concrete pipe, manholes, and existing sewer lines.
2. Patching or repairing connections in precast concrete, overhead beams and floors.
3. floors.
4. Quick patching repairs on sidewalks, curbs and driveways.
Underwater concrete patching.

ADVANTAGES:

1. Resistance to biogenic corrosion.
2. Exhibits 70% less abrasion wear than conventional Portland cement mixes as evaluated per ASTM C 944.
3. Superior bonding characteristics.
4. Usable on vertical and overhead surfaces.
5. Non-chloride.
6. Can be tooled and shaped.
7. Ready to use; just add water.

PROCEDURES:

1. **SURFACE PREPARATION:** All surfaces to be in contact with CR MORTAR must be entirely free of oil, grease or other foreign substances. Pressure washing at 1500 psi is suggested. Roughen surface and clean thoroughly with potable water leaving the concrete saturated but free of standing water.
2. **MIXING:** CR MORTAR should be thoroughly mixed (3 to 5 minutes) to the desired consistency by varying the amount of water used. CR MORTAR is not designed to be a pourable patch. It is important not to exceed the recommended water requirements. Mechanical mixers are required for blending CR MORTAR.

CONSISTENCY	RECOMMENDED MAX. WATER/30 kg (66 lb)
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Sprayable/Trowellable	5.6 liters (6.0 US quarts)
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3. **PLACEMENT:** CR MORTAR can be hand trowelled or wet-sprayed. The coating should be applied to create a thickness of 12mm to 25mm (1/2" to 1").
4. **CURING:** It is desirable to moist cure CR MORTAR for at least eight hours after initial set.

TECHNICAL DATA: The data outlined below is representative of typical values achievable under controlled laboratory conditions. Results obtained in the field may vary from those stated.

Consistency	Test Method ASTM C928	MORTAR
Working time		1 hour
Compressive Strength MPa (psi):	ASTM C109	
1-Day		20 (3000)
7-Day		24 (3500)
28-Day		27 (4000)
Flexural Strength MPa (PSI)	Lehigh	
24 hr.		2.0 (300)
7 days		2.4 (350)
28 days		2.7 (400)
Set Time	ASTM C266	Initial - 3hrs Final - 5hrs
Bleeding	CAN3-23.2 - 1B ASTM C940-81	Nil
Segregation		Nil
Shrinkage (95%RH) @ 7 days @ 28 days	Lehigh	<0.04% <0.05%
Corrosion Resistance pH of 2 pH of 7 pH of 12	Lehigh	Excellent Excellent Excellent
Density - kg/m ³ (lb/ft ³)	ASTM C185	2161 (135)
Yield - m ³ /bag (ft ³ /bag)	ASTM C185	0.016 (0.58)

LIMITATIONS: Adhering to recommended water additions is very important. Exceeding the maximum recommended water content per sack will result in inferior physical properties.
Liability for damages or defective goods shall be limited to the refund of the purchase price or product replacement.

PACKAGING: CR MORTAR is packaged in 30 kg (66 lb) triple-lined paper bags. All Basalite Dry Mix can be custom packaged to meet specific project requirements.

SAFETY PRECAUTIONS: CR MORTAR contains hydraulic cement and other carefully selected additives. Normal safety wear such as rubber gloves, dust mask and safety glasses, used to

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handle conventional cement-based products, should be worn. Material Safety Data Sheets are available upon request.