



# RAPID CURE VERTICAL GRADE (Manhole Raising)

## MANUFACTURER

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## DESCRIPTION

RAPID CURE MANHOLE is a one component, rapid setting, polymer modified, silica fume, fiber reinforced mortar. Water is all that is needed to create a high strength, fast setting mortar.

## USES

Designed to support raised manhole rings to new surface levels and to provide stability prior to topping with asphalt.

## APPLICATION

Begin by measuring approx 4 qts. cool water to mixing vessel. Slowly add 50 lbs. of mortar and mix to a zero slump. (More or less water may be added to achieve desired consistency) Use mortar to grout under manhole ring and allow to set. Mortar may then be placed around outside of ring to stabilize the area prior to placement of concrete or asphalt. The addition of 15 to 20 lbs. of ¼" to 3/8" gravel can be used to extend mortar.

## LIMITATIONS

Place material in temperatures between 40° F and 100° F.  
**COLD PLACEMENT:** warm material, water and patch area and keep above 40° F for 24 hours after placement. Do not allow patch to freeze for 48 hours after placement.  
**HOT PLACEMENT:** mix patch with cold water or ice water. Store patch in cool or shaded area before mixing.

## CLEAN UP

Clean up is simple and easy with soap and water. Rinse tools before material hardens.

## PRECAUTIONS

Contains Portland cement: avoid eye contact and 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.

## COVERAGE

Volume yields .45 cubic feet per 50 lb. bag.

## PACKAGING

Packaged in a 50 lb. poly-lined bag or 50 lb. plastic pail.

## TECHNICAL DATA

### COMPRESSIVE STRENGTH

ASTM C-109 (Air Cure)

2 Hours	2400 PSI
1 Day	4000 PSI
28 Day	6800 PSI

### FLEXURAL STRENGTH

ASTM C-293

7 Day	580 PSI
28 Day	900 PSI

### BOND STRENGTH

ASTM C-882 Modified

1 Day	350 PSI
7 Day	1000 PSI
28 Day	1600 PSI

### SHRINKAGE

ASTM C-596

1 Day	0.0 %
7 Day	0.0 %
28 Day	0.0 %

### Setting Times 77° F

Initial Set	30 min.
Final Set	40 min.

Cold Temperatures – Set slower.

Hot Temperatures – Set faster