

ChemGrout®

"Equipment for Grouting Since 1969"

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Material Testing Results

Date: 10-25-2001

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Manufacturer: L & M Construction Chemicals
14851 Calhoun Road
Omaha, NE 68152

Contact: Byron D. Hanson
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Material: Premier **Lot #** 0302-1250-04

Material Application: Non-shrink cement grout, quick set

Mfg. Plant: Omaha, NE **Std. Bag Weight:** 55 #

Testing Conditions: Outside Temperature: 61.0°F Humidity: 41%

Equipment Used: Model: CG570 Pump: 2TJ6 Progressing Cavity
Mixer: Paddle Power: Hydraulic

Std. Mix Ratios: 5.375 qts water per 55 lb.bag **Water Temp:** 59.0 *F

Batching Method: Quantity Material: 165 lbs. Quantity Water: 33.6 lbs

Mixing Time: 30-40 Seconds **Batch Temp:** 64.8 *F

Specific Gravity: SG = 2.09 **Flow Cone** 18 Seconds

Pumping Method: Recirculated through hose, recorded pressures at various flow rates.

Flow Rate/Pressure:	Flow Rate	Pressure	Flow Rate	Pressure
Hose (1 1/4" x 25')	1.7 GPM	7 PSI	17.7 GPM	27 PSI
Hose ()	3.2 GPM	10 PSI	19.4 GPM	28 PSI
Hose ()	4.8 GPM	13 PSI	21.0 GPM	29 PSI
Hose ()	6.4 GPM	15 PSI	22.5 GPM	31 PSI
Hose ()	8.1 GPM	18 PSI	GPM	PSI
Hose ()	9.7 GPM	20 PSI	GPM	PSI
Hose ()	11.2 GPM	21 PSI	GPM	PSI
Hose ()	12.9 GPM	24 PSI	GPM	PSI
Hose ()	14.5 GPM	25 PSI	GPM	PSI
Hose ()	16.0 GPM	26 PSI	GPM	PSI

Observations: Mixed very easy, low discharge pressures even at high flow rates
dark grey, smooth, some unsuspended particals in mix tank
Estimate maximum pumping distance over 200 feet at 20 GPM.

Results: ChemGrout, Inc. rates the pumpability of the product as a "8" out of 10 with 10 being the easiest. We recommend the CG050 pump or higher.