

ChemGrout®

"Equipment for Grouting Since 1969"

805 E. 31st Street, P.O. Box 1140

LaGrange Park, Illinois 60526

Phone: 708-354-7112 Fax: 708-354-3881

Material Testing Results

Date: 10-25-2001

E-Mail: info@chemgrout.com

Web Site: www.chemgrout.com

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

Contact: Byron D. Hanson
Phone: 800-362-3331
Fax: 402-453-0244

Material: Duragrout **Lot #** 0902-1361-04

Material Application: Non-shrink cement grout

Mfg. Plant: Omaha, NE **Std. Bag Weight:** 50 #

Testing Conditions: Outside Temperature: 61.1°F Humidity: 41%

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

Std. Mix Ratios: 4.0 qts water per 50 lb.bag **Water Temp:** 59.4 °F

Batching Method: Quantity Material: 150 lbs. Quantity Water: 25 lbs

Mixing Time: 30-40 Seconds **Batch Temp:** 64.3 °F

Specific Gravity: SG = 2.16 **Flow Cone** 40 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')	1.6 GPM	5 PSI	17.6 GPM	33 PSI
Hose ()	3.2 GPM	9 PSI	19.3 GPM	36 PSI
Hose ()	4.8 GPM	13 PSI	20.9 GPM	39 PSI
Hose ()	6.4 GPM	17 PSI	22.5 GPM	40 PSI
Hose ()	8.0 GPM	20 PSI	GPM	PSI
Hose ()	9.7 GPM	23 PSI	GPM	PSI
Hose ()	11.2 GPM	25 PSI	GPM	PSI
Hose ()	12.9 GPM	27 PSI	GPM	PSI
Hose ()	14.5 GPM	29 PSI	GPM	PSI
Hose ()	16.1 GPM	32 PSI	GPM	PSI

Observations: Mixed very easy, low discharge pressures even at high flow rates
dark grey, smooth, some unsuspended particulates 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.