

ChemGrout®

"Equipment for Grouting Since 1969"

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Material Testing Results

Date: August 10, 2000

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Manufacturer: ChemRex- Master Builders, Inc.
23700 Chargrin Blvd.
Cleveland, OH 44122

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Material: Emaco S77 CI **Lot #** 12/04/99 M1FF

Material Application: Very flowable, Shrinkage compensated, Structural repair mortar
Corrosion inhibitor, Form & Pour

Mfg. Plant: N/A **Std. Bag Weight:** 55 #

Testing Conditions: Outside Temperature: 82.5°F Humidity: 61%

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

Std. Mix Ratios: 6.0 lbs. water per 55 lb bag **Water Temp:** 74.7 *F

Batching Method: Quantity Material: 163 lbs. Quantity Water: 22.5 lbs

Mixing Time: 40-50 Seconds **Batch Temp:** 89.0 *F

Specific Gravity: SG = N/A **Flow Cone** N/A Seconds

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

Flow Rate/Pressure:	Flow Rate	Pressure	Flow Rate	Pressure
Hose (12.5' Long x 1 1/4" I.D.)	3.4 GPM	35 PSI	GPM	PSI
Hose ()	4.9 GPM	42 PSI	GPM	PSI
Hose ()	7.3 GPM	52 PSI	GPM	PSI
Hose ()	9.0 GPM	60 PSI	GPM	PSI
Hose ()	11.0 GPM	70 PSI	GPM	PSI
Hose ()	13.2 GPM	80 PSI	GPM	PSI
Hose ()	15.0 GPM	90 PSI	GPM	PSI
Hose ()	17.3 GPM	100 PSI	GPM	PSI
Hose ()	19.4 GPM	110 PSI	GPM	PSI
Hose ()	20.8 GPM	130 PSI	GPM	PSI

Observations: Dark Grey color, Smooth looking mix, Larger particles 1/8" , batch stays together well, kicked off breaker over 20 GPM
Estimate maximum pumping distance over 75 feet at 5 GPM

Results: ChemGrout, Inc. rates the pumpability of this product as a "5" out of 10, with 10 being the easiest. ChemGrout, Inc. recommends the CG2J6 pump or higher.