

# 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:** Shotpatch 21FL **Lot #** 12/04/99 M1FF

**Material Application:** Shotcrete "Wet / Dry", Structural repair mortar, Fiber enhanced

**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: 165 lbs. Quantity Water: 16 lbs

**Mixing Time:** 80-90 Seconds **Batch Temp:** 87.8 °F

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

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

<b>Flow Rate/Pressure:</b>	Flow Rate	Pressure	Flow Rate	Pressure
Hose (12.5' Long x 1 1/4" I.D.)	2.6 GPM	10 PSI	GPM	PSI
Hose ( )	4.8 GPM	20 PSI	GPM	PSI
Hose ( )	6.9 GPM	30 PSI	GPM	PSI
Hose ( )	8.9 GPM	35 PSI	GPM	PSI
Hose ( )	10.9 GPM	38 PSI	GPM	PSI
Hose ( )	12.8 GPM	45 PSI	GPM	PSI
Hose ( )	14.7 GPM	50 PSI	GPM	PSI
Hose ( )	17.5 GPM	55 PSI	GPM	PSI
Hose ( )	19.4 GPM	60 PSI	GPM	PSI
Hose ( )	GPM	PSI	GPM	PSI

**Observations:** Dark Grey color, Gritty looking mix, Larger particles 1/8" , Fiber tends to clump together during cleanout, high discharge pressures, kicked off breaker at 20 GPM Estimate maximum pumping distance over 50 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.