

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: SP 20 Spray Mortar **Lot #** 168417200

Material Application: Shrinkage compensated, microsilica enhanced, fiber reinforced wet process repair mortar

Mfg. Plant: Streetsborough, OH **Std. Bag Weight:** 55 #

Testing Conditions: Outside Temperature: 85.1*F Humidity: 40%

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

Std. Mix Ratios: 7.0 lbs water per 55 lb.bag **Water Temp:** 76.4 *F

Batching Method: Quantity Material: 165 lbs. Quantity Water: 22 lbs

Mixing Time: 110-120 Seconds **Batch Temp:** 97+ *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.)	3.17 GPM	20 PSI	GPM	PSI
Hose ()	5.16 GPM	35 PSI	GPM	PSI
Hose ()	7.20 GPM	40 PSI	GPM	PSI
Hose ()	8.87 GPM	45 PSI	GPM	PSI
Hose ()	10.91 GPM	50 PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI

Observations: Dark gray color, smooth looking mix, very thick mix, some large 1/8" particals
Fast setting, heated up causing air pockets, low discharge pressures,
Estimate maximum pumping distance over 50 feet at 8 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 CG2TJ6 pump or higher.