

ChemGrout®

"Equipment for Grouting Since 1969"

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Material Testing Results

Date: August 19, 2003

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Manufacturer: US Mix Product Company
112 S. Santa Fe Drive
Denver, CO 80223

Contact: Gregg Freeman
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Material: MP Grout **Lot #** USO 6303

Material Application: High Flow, High Strength, Non-Shrink Grout

Mfg. Plant: Denver, CO **Std. Bag Weight:** 50 #

Testing Conditions: Outside Temperature: 79°F Humidity: 50%

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

Std. Mix Ratios: 1 gal. per bag **Water Temp:** 73.4 *F

Batching Method: Quantity Material: 200 lbs. Quantity Water: 33.3 lbs

Mixing Time: 35 Seconds **Batch Temp:** 87 *F

Specific Gravity: SG = 2.09 **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 (1 1/4" x 25')	2.15 GPM	10 PSI	23.65 GPM	44 PSI
Hose ()	4.30 GPM	14 PSI	25.80 GPM	44 PSI
Hose ()	6.45 GPM	19 PSI	GPM	PSI
Hose ()	8.60 GPM	25 PSI	GPM	PSI
Hose ()	10.75 GPM	30 PSI	GPM	PSI
Hose ()	12.90 GPM	34 PSI	GPM	PSI
Hose ()	15.05 GPM	36 PSI	GPM	PSI
Hose ()	17.20 GPM	40 PSI	GPM	PSI
Hose ()	19.35 GPM	42 PSI	GPM	PSI
Hose ()	21.50 GPM	42 PSI	GPM	PSI

Observations: Dark gray, smooth looking product. mixed and pumped good, low discharge pressures, no separation in hopper. Estimate maximum hose length of 150 feet.

Results: ChemGrout, Inc. rates the pumpability of this product as a "7" out of 10, with 10 being the easiest. ChemGrout, Inc. recommends the CG050 pump or higher.