

ChemGrout®

"Equipment for Grouting Since 1969"

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Material Testing Results

Date: July 23, 2004

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Manufacturer: CTS Cement Mfg. Corp.
1731 W. Beecher-Peotone Rd
Beecher, IL 60401

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Material: UltraFlow 4000/8

Lot # N/A

Material Application: Non-Shrink Grout - precision

Mfg. Plant: Blue Island, IL

Std. Bag Weight: 55 #

Testing Conditions: Outside Temperature: 72°F

Humidity: %

Equipment Used: Model: CG570
Mixer: Paddle

Pump: 2TJ6 Progressing Cavity
Power: Hydraulic

Std. Mix Ratios: 1 - 55 lb bag to 5.25 qts water

Water Temp: 72 °F

Batching Method: Quantity Material: 165 lbs.

Quantity Water: 31 lbs

Mixing Time: 60 Seconds

Batch Temp: 80 °F

Specific Gravity: SG = 2.08

Flow Cone 50 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')	2.5 GPM	8 PSI	GPM	PSI
Hose ()	4.3 GPM	14 PSI	GPM	PSI
Hose ()	6.9 GPM	23 PSI	GPM	PSI
Hose ()	8.7 GPM	28 PSI	GPM	PSI
Hose ()	10.8 GPM	34 PSI	GPM	PSI
Hose ()	13.7 GPM	37 PSI	GPM	PSI
Hose ()	15.9 GPM	42 PSI	GPM	PSI
Hose ()	18.3 GPM	46 PSI	GPM	PSI
Hose ()	20.4 GPM	48 PSI	GPM	PSI
Hose ()	22.2 GPM	51 PSI	GPM	PSI

Observations: Mixed easy, pumped with low pressures, light gray color, smooth material
Max hose length: between 100 - 150 feet

Results: ChemGrout, Inc. rates the pumpability of this product as a "8" out of 10, with 10 being the easiest. ChemGrout, Inc. recommends the CG050 pump or higher.