

# ChemGrout®

"Equipment for Grouting Since 1969"

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## Material Testing Results

Date: 8/17/2000

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**Manufacturer:** Lyons Mfg, Inc.  
8900 Forney Rd  
Dallas, TX 75227-8158

**Contact:** Robert  
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**Material:** Powercrete

**Lot #** N/A

**Material Application:** rapid setting, structural repair mortar "patch"

**Mfg. Plant:** Dallas, TX

**Std. Bag Weight:** 50 #

**Testing Conditions:** Outside Temperature: 75.9°F

**Humidity:** 61%

**Equipment Used:** Model: CG570  
Mixer: Paddle

**Pump:** 2TJ6 Progressing Cavity  
**Power:** Hydraulic

**Std. Mix Ratios:** 3 quarts/bag

**Water Temp:** 74.3 °F

**Batching Method:** Quantity Material: 150 lbs.

**Quantity Water:** 18.8 lbs

**Mixing Time:** 50-60 Seconds

**Batch Temp:** 84.6 °F

**Specific Gravity:** SG = 2.01

**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 (1 /14" X 50')	3.12 GPM	45 PSI	GPM	PSI
Hose (1 /14" X 50')	5.32 GPM	70 PSI	GPM	PSI
Hose (1 /14" X 50')	7.69 GPM	90 PSI	GPM	PSI
Hose (1 /14" X 50')	9.68 GPM	120 PSI	GPM	PSI
Hose (1 /14" X 50')	11.83 GPM	135 PSI	GPM	PSI
Hose (1 /14" X 50')	14.08 GPM	150 PSI	GPM	PSI
Hose (1 /14" X 50')	15.7 GPM	160 PSI	GPM	PSI
Hose (1 /14" X 50')	18.17 GPM	175 PSI	GPM	PSI
Hose (1 /14" X 50')	20.26 GPM	180 PSI	GPM	PSI
Hose (1 /14" X 50')	22.52 GPM	190 PSI	GPM	PSI

**Observations:** Fast setting--small batch needed--mixed good--good cohesion  
high pressure--dumped OK--needs high Horse Power  
Max hose length: 75 ft

**Results:** ChemGrout, Inc. rates the pumpability of this product as a "6-7" out of 10, with 10 being the easiest. ChemGrout, Inc. recommends the CG2J6 pump or higher.