

ChemGrout®

"Equipment for Grouting Since 1969"

805 E. 31st Street, P.O. Box 1140

LaGrange Park, Illinois 60526

Phone: 708-354-7112 Fax: 708-354-3881

Material Testing Results

Date: 8/17/2000

E-Mail: info@chemgrout.com

Web Site: www.chemgrout.com

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

Contact: Robert
Phone: 214-381-8100
Fax: 214-381-8100

Material: Flow Rock

Lot # N/A

Material Application: anchoring cement--non shrink grout

Mfg. Plant: Dallas, TX

Std. Bag Weight: 50 #

Testing Conditions: Outside Temperature: 75.7°F

Humidity: 58%

Equipment Used: Model: CG570
Mixer: Paddle

Pump: 2TJ6 Progressing Cavity
Power: Hydraulic

Std. Mix Ratios: 5 qts/bag

Water Temp: 76.4 *F

Batching Method: Quantity Material: 150 lbs.

Quantity Water: 31.3 lbs

Mixing Time: 30-40 Seconds

Batch Temp: 77.8 *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 50')	2.8 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	4.73 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	7.26 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	9.94 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	12.26 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	14.51 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	16.61 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	19.24 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	21.5 GPM	PSI	GPM	PSI
Hose (1 1/4" X 50')	24.03 GPM	PSI	GPM	PSI

Observations: Fast setting--17 minute initial set--mixed & pumped very easy
Low HP required
Max hose length: 200+ ft

Results: ChemGrout, Inc. rates the pumpability of this product as a "8" out of 10, with 10 being the easiest. ChemGrout, Inc. recommends the 2C4 pump or higher.