

# 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: July 22, 2014

E-Mail: info@chemgrout.com

Web Site: www.chemgrout.com

**Manufacturer:** ChemMasters  
300 Edwards Street  
Madison, OH 44057

**Contact:** John Fauth  
**Phone:** 800-486-7866  
**Fax:** 440-428-7091

**Material:** ChemSpeed 75

**Lot #** G424510

**Material Application:** Rapid Setting, Structural Repair Mortar

**Mfg. Plant:** Madison, OH

**Std. Bag Weight:** 50 #

**Testing Conditions:** Outside Temperature: 91°F

Humidity: 53%

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

Pump: 2TJ6 Progressing Cavity  
Power: Hydraulic

**Std. Mix Ratios:** 50 lb. bag to 2.5 qts water

**Water Temp:** 75 °F

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

Quantity Water: 15.6 lbs

**Mixing Time:** 180 Seconds

**Batch Temp:** 83 °F

**Specific Gravity:** SG = 2.22

**Flow Cone** N/A Seconds

**Pumping Method:** Recirculated through hose, recorded pressures at various flow rates.

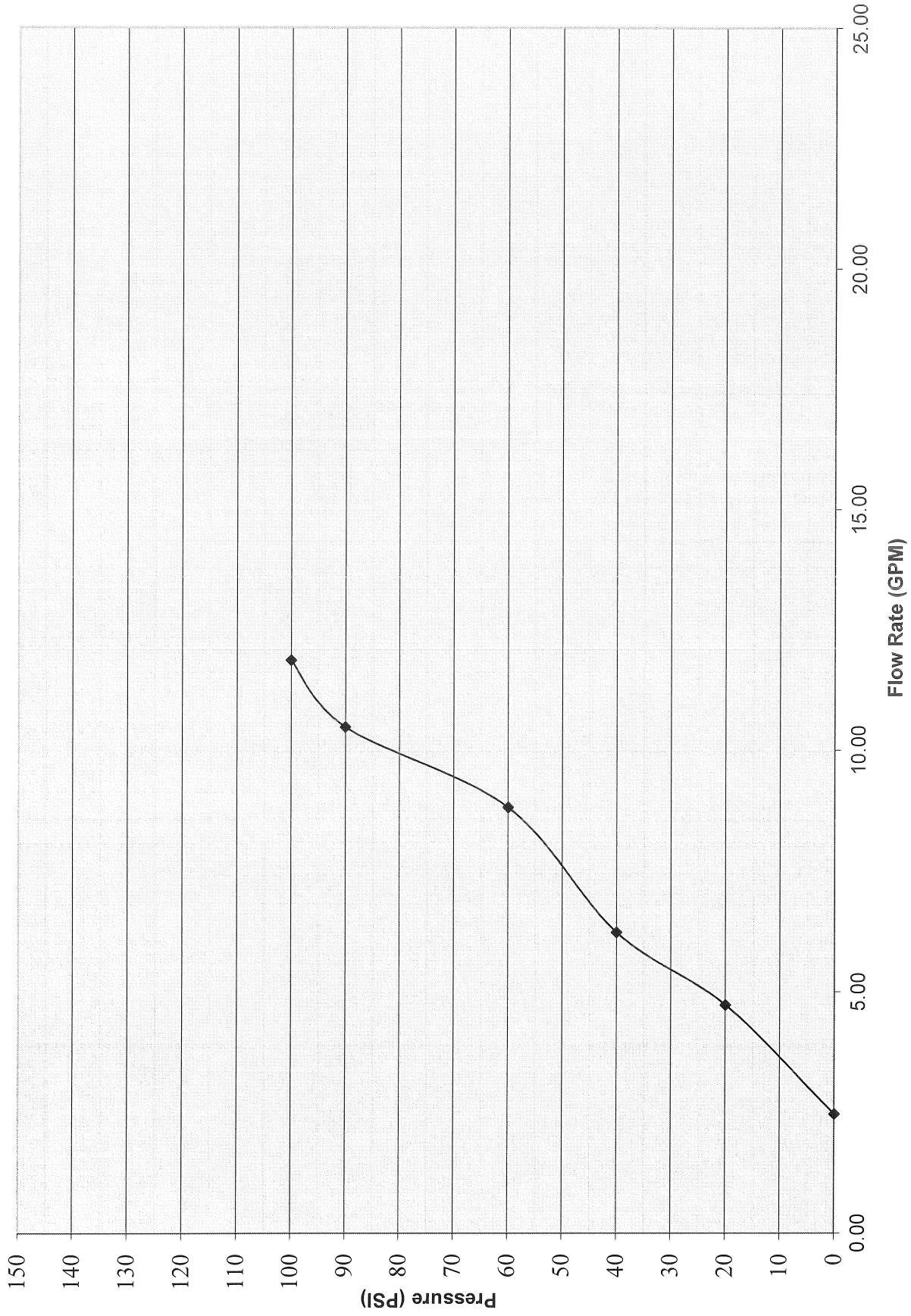
<b>Flow Rate/Pressure:</b>	Flow Rate	Pressure	Flow Rate	Pressure
Hose (1 1/4" x 50' Hose)	2.5 GPM	0 PSI	GPM	PSI
Hose ( )	4.7 GPM	20 PSI	GPM	PSI
Hose ( )	6.2 GPM	40 PSI	GPM	PSI
Hose ( )	8.8 GPM	60 PSI	GPM	PSI
Hose ( )	10.5 GPM	90 PSI	GPM	PSI
Hose ( )	11.9 GPM	100 PSI	GPM	PSI
Hose ( )	GPM	PSI	GPM	PSI
Hose ( )	GPM	PSI	GPM	PSI
Hose ( )	GPM	PSI	GPM	PSI
Hose ( )	GPM	PSI	GPM	PSI

**Observations:** Light Gray, smooth looking material. Mixed and pumped easy. Low pumping pressure, Max working time is 10 min at 75°F. Estimate max hose length of 75 feet.

**Results:** ChemGrout, Inc. rates the pumpability of this product as a "6" out of 10, with 10 being the easiest. ChemGrout, Inc. recommends the CG030 pump or higher.

# ChemMasters ChemSpeed 75

1 1/4" x 50' Hose



# ChemGrout Pump Test Data

**Date Tested:** July 22, 2014

**Tested By:** Joe Schatz  
Paul Biela

**Manufacturer:** ChemMasters

**Contact:** John Fauth  
**Phone:** 440-428-2105  
**Fax:** 440-428-7091

**Material:** ChemSpeed 75

**Lot#** G424510

**Hose Used:** One 1.25 Inch I.D. x 50 Foot Long = Total 50 Foot

Product Pump RPM	Product		Hydraulic Pump		Power HP Required
	Flow Rate (GPM)	Pressure (PSI)	Flow Rate(GPM)	Pressure (PSI)	
46.0	2.47	0	3.0	500	0.88
88.0	4.73	20	4.0	600	1.40
116.0	6.24	40	5.0	700	2.04
164.0	8.82	60	6.0	700	2.45
195.0	10.48	90	7.0	800	3.27
221.0	11.88	100	9.0	800	4.20

Average HP Required = 2.37

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**Manufacturer:** ChemMasters

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**Material:** ChemSpeed 75

**Lot#** G424510

**Hose Used:** One 1.25 Inch I.D. x 50 Foot Long = Total 50 Foot

Sieve #	Weight Retained	% Retained	Cumulative Ret	Weight Passed	% Passed
4	0 Grams	0.0%	0.0%	500 Grams	100.0%
8	0 Grams	0.0%	0.0%	500 Grams	100.0%
16	0 Grams	0.0%	0.0%	500 Grams	100.0%
30	78 Grams	15.6%	15.6%	422 Grams	84.4%
50	170 Grams	34.0%	49.6%	252 Grams	50.4%
100	69 Grams	13.8%	63.4%	183 Grams	36.6%
200	138 Grams	27.6%	91.0%	45 Grams	9.0%
PAN	45 Grams	9.0%	100.0%	0 Grams	0.0%

**Total Sample =** 500 Grams

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