

# ChemGrout®

"Equipment for Grouting Since 1969"

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## Material Testing Results

Date: NOV 5, 2009

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**Manufacturer:** BASF - Masterbuilders  
23700 Chagrin Blvd  
Beachwood, OH 44122

**Contact:** Fred Goodwin  
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**Material:** Masterflow 1341

**Lot #**

Material Application: Universal Post-Tensioning Grout

Mfg. Plant: N/A

Std. Bag Weight: 55 #

**Testing Conditions:** Outside Temperature: 65.5°F

Humidity: 33%

**Equipment Used:** Model: CG400  
Mixer: Colloidal Shear Disk

Pump: 2L4 Progressing Cavity  
Power: Electric/Hydraulic

**Std. Mix Ratios:** 1.8-2.0 gal per 55 lb bag

**Water Temp:** 61 \*F

**Batching Method:** Quantity Material: 110 lbs.

Quantity Water: 30 lbs

**Mixing Time:** Sampled every 120 Seconds

**Batch Temp:** 61.5-74.5 \*F

**Specific Gravity:** SG = N/A

**Flow Cone** Seconds

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

<b>Flow Rate/Pressure:</b>	Pump Flow Rate	Pressure	Mixing Time	Flow Cone
Hose (1" x 50')	1.05 GPM	6 PSI	6 MIN	33.7 SEC
Hose ( )	1.81 GPM	9 PSI	8 MIN	27.6 SEC
Hose ( )	2.00 GPM	10 PSI	10 MIN	25.2 SEC
Hose ( )	2.46 GPM	11 PSI	12 MIN	21.0 SEC
Hose ( )	3.15 GPM	12 PSI	14 MIN	15.8 SEC
Hose ( )	4.10 GPM	15 PSI		
Hose ( )	5.23 GPM	18 PSI		
Hose ( )	5.48 GPM	19 PSI		

**Observations:** Mixed for 14 minutes sampling every 2 minutes. Recorded flow cone times after mixing For 6 minutes. Took about 45 sec after last bag to take all the material into suspension. Estimate pumping distance over 250 feet.

**Results:** ChemGrout, Inc. rates the pumpability of this product as a "9" out of 10, with 10 being the easiest. ChemGrout, Inc. recommends the CG050 pump or higher.