

ChemGrout®

"Equipment for Grouting Since 1969"

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Material Testing Results

Date: December 16, 2004

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Manufacturer: Five Star Products, Inc.
750 Commerce Drive
Fairfield, CT 06825

Contact: Douglas Cheney
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Material: Five Star DP Epoxy "Pump Grade" **Lot #** A-7567622873

Material Application: Epoxy 3 part (resin, activator, aggregate) for machine bases

Mfg. Plant:

Std. Bag Weight: A-20.9 B-6.3 C-200 #

Testing Conditions: Outside Temperature: N/A*F

Humidity: N/A%

Equipment Used: Model: CG570
Mixer: Paddle

Pump: 2TJ6 Progressing Cavity
Power: Hydraulic

Std. Mix Ratios: A-20.9 lb B-6.3 Lb C 150-200 lb

Water Temp: N/A *F

Batching Method: Quantity Material: 2 units lbs.

Quantity Water: lbs

Mixing Time: 120 Seconds

Batch Temp: 72 *F

Specific Gravity: SG = N/A

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 25' 3 bag ssand)	3.55 GPM	129 PSI	5.32 GPM	173 PSI
Hose ()	6.45 GPM	188 PSI	7.47 GPM	214 PSI
Hose ()	8.28 GPM	219 PSI	9.46 GPM	241 PSI
Hose ()	11.34 GPM	264 PSI	GPM	PSI
Hose (1 1/4" x 25' 4 bags sand)	2.20 GPM	193 PSI	3.12 GPM	231 PSI
Hose ()	3.76 GPM	257 PSI	4.09 GPM	281 PSI
Hose ()	GPM	PSI	GPM	PSI
Hose (1 1/4" x 12.5' 4 bag sand)	6.07 GPM	224 PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI

Observations: Mixed easy, high discharge pressures, pumped with 150 lbs sand and 200 lbs, pumps better at warm temp, 75 to 80*F, sticky product, soap & water clean-up
Estimate max hose length 37.5 feet

Results: ChemGrout, Inc. rates the pumpability of this product as a "5" out of 10, with 10 being the easiest. ChemGrout recommends the CG3C6 pump or higher.