

ChemGrout®

"Equipment for Grouting Since 1969"

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Material Testing Results

Date: April 14, 2009

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Manufacturer: Universal Building Products
840 S. 25th Ave
Bellwood, IL 60104

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Material: UniPatch V/O

Lot # H10E4201

Material Application: Vertical/ overhead single component, polymer modified repair mortar
Spray applied.

Mfg. Plant: Centralia, IL

Std. Bag Weight: 50lbs #

Testing Conditions: Outside Temperature: 64°F

Humidity: 26%

Equipment Used: Model: CG570
Mixer: Paddle

Pump: 2TJ6 Progressing Cavity
Power: Hydraulic

Std. Mix Ratios: 7pints/ 50lbs bag

Water Temp: 49.5 °F

Batching Method: Quantity Material: 150 lbs.

Quantity Water: 22 lbs

Mixing Time: 180 Seconds

Batch Temp: 58.5-62.5 °F

Specific Gravity: SG = 2.01

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')	5.81 GPM	63 PSI	GPM	PSI
Hose ()	9.68 GPM	93 PSI	GPM	PSI
Hose ()	10.86 GPM	108 PSI	GPM	PSI
Hose ()	11.61 GPM	120 PSI	GPM	PSI
Hose ()	13.76 GPM	140 PSI	GPM	PSI
Hose ()	15.70 GPM	148 PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI
Hose ()	GPM	PSI	GPM	PSI

Observations: High hydraulic pressure to mix & pump (800-1400 psi). Material started popping during pumping, had to use trowel to feed into pump. Some build up under under paddle during cleanup. ChemGrout estimates max pump distance of 50 feet

Results: ChemGrout, Inc. rates the pumpability of this product as a "4" out of 10, with 10 being the easiest. ChemGrout, Inc. recommends the CG3C6 Pump or higher.