

ChemGrout

"EQUIPMENT FOR GROUTING"

GROUT PUMPS & MIXERS • ACCESSORIES • GROUTING SYSTEMS • TECHNICAL ASSISTANCE

May 8, 1991

Michael S. Lemark
Conspec Marketing & Mfg. Co., Inc.
1 Bradbury
Clifton Park, NY 12065

re: pumpability tests

Dear Mike:

We have mixed and pumped 5 Conspec products as you requested. The following are the results.

Conditions: sunny, 65 degrees F, dry, windy

Equipment: CG-500, CG-555 and CG-550P. All have similar design vertical grout mixers but of different sizes. The CG-500 is equipped with a 1-20 gpm progressing cavity, rotor-stator pump. The CG-555 uses a 1-10 gpm rotor-stator pump and the CG-550P uses a 1-5 gpm piston pump (the CG-050 Mini-Grout-Pump).

Hoses were 1½" diameter for the CG-500, 1" diameter for the CG-555 and CG-550P. The length of grout hose used was 100' on all tests.

Water was metered in and the middle of the flowable range quantity was selected.

A protected pressure gauge measured the resistance to pumping in 100' of grout hose. A light slurry of cement and water (6 gal. water/94 lb. sack) primed the hoses.

Two sack batches were prepared by adding water first to the mixer with blades turning at about 60 rpm's, that is ½ speed. The bags were shaken in not dumped in, taking 10-15 seconds to empty the bag.

1) Conspec 100-non-shrink, non-metallic

Mixing was accomplished to a creamy, lump-free consistency within 15 seconds after emptying the second bag into the mixer. Grout emptied freely into hopper and pumped through 100' hose with 35-40 psi resistance in 1" line, 5-15 psi resistance in 1½" line. No discoloration was observed. Pump was stopped, grout allowed to sit in hopper 3 minutes. No significant difficulty in restarting pump. Some settlement occurred in bottom of hopper during the 3 minutes.