

ChemGrout®

"Equipment for Grouting Since 1969"

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August 4, 1999

FAXED
6-28-00

Bert Kriekemans, Pres.
De Neff Construction Chemicals, Inc.
18314 Mathis Road
Waller, TX 77484

Re: MC 500 Mixing Tests

Dear Bert,

Thank you for providing the mircofine cement to allow us to conduct mixing trials for the purpose of selecting the proper mixer for this material.

The following observations were made when doing the mixing trials:

1. The MC 500 mircofine cement does not mix well without the NS 200 dispersing agent. The dispersing agent is required to help separate the particles so that full wetting is assured.
2. This material does not mix well with a paddle mixer for the same reasons as above. The material lumps up and the paddle mixer is too inefficient in breaking-up the lumps as the powder is difficult to separate.
3. The MC 500 with the NC 200 was mixed instantaneously with the ChemGrout colloidal mixer. Water and materials are drawn through a high-speed, centrifugal, diffuser-type pump @ 1500 to 2000 rpm to brake apart and reduce particle size and achieve complete wetness.
4. With the colloidal mixer, we were able to get the W/C ratio down to 0.8:1. This ratio would have gone lower but we ran out of material.
5. Samples of the wet colloidal mixed materials sieved though the 100 and 200 mesh screens and no lumps were observed.

In conclusion the ChemGrout colloidal mixer is a good choice for mixing the MC 500 with the NC200 dispersing agent.

Sincerely,

Ben P. Schatz