

ChemGrout

Equipment for Grouting

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January 5, 1996
Henry Allen
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425 Stillson Road
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Re : STRUCTURAL CONCRETE

The following is our test report on the pumping characteristics of the STRUCTURAL CONCRETE as tested here at ChemGrout on this date. We appreciate your confidence in our equipment and the opportunity to be of service.

From the results of the sieve analysis is clear that there is not an even distribution of the fine particles. This indicates a problem in the pumping characteristics of the material. Without an even distribution of the particles the sand will fall out of suspension and plug the pump. It was decided to try to pump the material to confirm the results of the sieve analysis. The STRUCTURAL CONCRETE mixed quickly and thoroughly to a thick, pasty consistency with the recommended 3 quarts of water and the 50 lb. bag. This was too thick to pump so an additional 0.5 quarts per bag was added. After the lower holding hopper was filled the grout pump was engaged. The pump plugged instantly. After disassembling the pump a high concentration of sand was found in the pump which confirms the results of the sieve analysis.

Conditions : Inside warehouse temp. 68 Degrees F.

Equipment Used : CG-550P Grout pump & mixer, and a 1' X 50' grout hose.

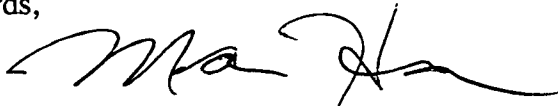
Mixing Water Temp. : 68 Degrees F.

STRUCTURAL CONCRETE : Two bags were added to 7.0 quarts total water in the mixer. With mixer blades running at about 60 RPM a creamy, smooth, lump-free consistency was observed after about 30 seconds after the last bag was added.

This material in the present formulation is not pumpable.

Please contact us with your comments.

Regards,



Marvin Hansen
ChemGrout, Inc.