

GENERAL TESTING LABORATORIES

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Dear Paul,

I am very pleased to let you know that the first effort of pumping lightweight containing Acti-Gel 208 was a great success. Previous to the use of Acti-Gel 208 it was very difficult to maintain consistency in the mix especially if the contractor was using a 3" line during the pumping process. The jobsite demands usually meant a very high amount of water to be added to compensate for absorption into the lightweight aggregate even though the product had been vacuum saturated before use. Air contents in the 8 to 10% range were typical in order to keep a 6% value on the pumped site. Excessive bleeding resulted on the floor surface as the water was released out of the lightweight when the pressure of the pump line was ended. Local contractors were very hesitant to bid lightweight projects because of the limitations and unpredictability of the product and QC costs were very high.

The first pump casting of lightweight using Acti-Gel 208 used a typical mix design along with 1 bag of Fibermesh 300 and 2.8 pounds of Acti-Gel 208 per cubic yard. The concrete was pumped to a 5 floor height with the pumper line set straight up and 90 feet of 3" rubber hose. Slump losses were minimal and placement was very easy. The contractor elected to not use a finishing aid due to the ease of finishing. The normal bleeding that we see was not present and the contractor was able to finish the floor quicker than previous lightweight projects that he had experience with. This good result has been duplicated many times since with a variety of contractors.

Thank you for introducing us to Acti-Gel 208 and the support you offered prior to the use of Acti-Gel 208 in a lightweight mix design. This experience of having a significant issue resolved with 1 product is encouraging and points to further projects with not only lightweight concrete but other products as well. Not having to deal with plugged pumps, upset contractors, and irritated workers has been a blessing.

Sincerely,



Laboratory Manager