



Beacon Hill Apartments Pittsburgh Pennsylvania

Product used: Barchip Macro

Project Specifications

Concrete Supplier:	Stone Ready-Mix
Product used:	Barchip Macro
Dosage rate:	5.5 lbs/yd
Original design called for:	6x6 2.0x2.0 welded wire fabric and #3 rebar 18" on center at the slab girder connections.
Total Yardage:	1800 yds
Mix design:	4000psi light weight concrete -3/4" top size aggregate, with super plasticizer
Slab thickness:	4 inches
Slab locations:	Four floors, three slabs on metal composite decks and one slab on grade
Placement method:	Truck pump

The Project

In February of 06 EPC personnel worked with Stone and Company from Pittsburgh PA to help come up with an alternate design for the slab on metal decks and slab on grade reinforcement using Macro synthetic fibers. After convincing the owner and Engineers Stone and Company and the contractor were given the green light to proceed with an alternate design using fibers. After comparing all available fibers it was determined by Stone and Company that Barchip would provide them the best pound for pound performance versus the competition which would have required a higher dosage rate.

Stone and Company was very pleased with the performance of the fibers during batching and

discharge noting the non existence of fiber balls which they expected from past experience with steel fibers and other competitor synthetic fibers. The contractor was equally pleased and impressed with how Barchip performed from start to finish.

Barchip saved time and labor requiring the contractor to only set forms because the reinforcing was delivered in the truck eliminating the need to hoist and place steel mesh, set chairs, and place rebar resulting in faster placements. The contractor also was impressed because he did not change any part of his placement procedures by using Barchip with the exception of not having to deal with the steel rebar and welded wire mesh.

Barchip was the answer to the solution for speeding up construction saving time and money for all that were involved. Barchip is tough as steel and doesn't rust.



Pumping concrete to 4th floor

continued over



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Easy to finish



No rebar or mesh to pull up



BarChip replaces mesh and rebar



No fiber sticking up



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