Pantheon™ Finishing Case Study

Scope of Work:

- Two concrete slabs were finished to show the effects of Pantheon™ on finishability.
- A cement replacement of 20% slag and 20% Pantheon™ were compared side by side.
- Broom finish, steel trowel finish, cutting, grooving and edging were performed.

Batching Information:

- 3.25 yards of a 4000 PSI Interior Mix, with a 20% cement replacement of slag and Pantheon™
- Interior mix used to observe a steel trowel finish.
- Water/Cement Ratio of 0.390 was held constant for both pads.
- Pantheon™ and slag were added to the truck with cement in the batching order.

Partners:

- Concrete and forms provided by Barney & Dickenson Inc. 520 Prentice Rd, Vestal, NY 13850
- Finishing performed by Rock Boulder Inc. Albert Diluzio, Binghamton NY.

Results:

Pantheon™ Finishing Observations from Albert Diluzio	
Grading	Normal performance.
Float Edge	No differences noted.
Roller Bug	Both Pantheon™ and slag performed as expected.
Bull Float	Pantheon™ and slag comparable in wetness and ripples.
Hand Float	No differences noted.
Groving	Cut normal on both pads and grooving was not affected.
Broome Finish	No differences noted.
Final Float	Pantheon™ finished well with normal grade, and caused no issues.
Edging	Pantheon™ edging was consistent with slag edging.
Set Time	No differences noted.

4000 PSI Interior Mix	
Material	Weight (lbs.)
Cement Type 1	451
Water	224
Sand	1440
CR#1	860
CR#2	860
BASF POLYHEED 997	2.125
Water to Cement Ratio	0.390
Pantheon™/Slag	113

Comments:

- Pantheon™ performed as expected with no changes in the finishing process.
- Finisher observed no notable differences between Pantheon™ and slag.
- There was no increase in set time between Pantheon™ and slag.

Pantheon™ Pad

Slag Pad

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