

CAMP Precast Pantheon™ Case Study



CAMP Precast:

- 78 Precast Rd. Milton, VT 05468
- Vermont AOT Certified, New York State DOT Certified, Member NPCA
- All personnel, equipment, and facility, consistently calibrated

Scope of Work:

- 1 yard batched mix with a 20% replacement of cement with Pantheon™
- ASTM Tests performed on freshly batched concrete
- 8, 4x8" core samples were taken and crushed at 3, 7, 14, 28 Day
- 2 manhole covers cast to observe how Pantheon™ affects standard workflow

Comments:

- Pantheon™ passed all ranges and requirements of ASTM test standards
- Pantheon™ achieved core compression requirements on every break
- Mix was slightly wet, Pantheon™ does not hold as much water as fly ash
- Cure time was not affected, molds for manhole covers were removed the next day
- 30% replacement would be preferable as slag and fly ash have been difficult to source

Mix Design	
Item	Weight (lbs.)
Sand	1560
Stone	1295
Cement (Lafarge Type III)	561
Pantheon™	140
Water	250
DAREX II AEA (air-entraining)	1.6
ADVA CAST585 (HRWR)	4.1
Total Weight	3811.7
Water to Cement ratio	0.430

Results	
ASTM-C231 - Air Content	6.7%
ASTM-C1064 - Temperature	80°F
ASTM-C138 - Density	43.35
ASTM-C39 - Comp. Strength	PSI
8/10/20 - 3 Day Average	4081
8/14/20 - 7 Day Average	4777
8/21/20 - 14 Day Average	5136
9/4/20 - 28 Day Average	5255

