Chicora Foundation Gas Displacement Mortar Analysis Data Sheet

Name:	Edison Rosendale 12M	Sample No.:	2005-9
Date:	8/19/05	Origin of Sample:	Edison Coatings #3005 reported to be 1.6:0.4:1 Rosendale:lime:sand; 28-day set

Visual Description of sample (color, texture, hardness, inclusions, etc.):

Very pale brown (10YR8/2); somewhat friable, multiple inclusions, small black flecks and quartz-like material; Edison reports that some aggregate is calcareous

Mortar Analysis

Original weight of powdered sample (in g)	5.31
Weight of filter paper (in g)	2.26
Weight of filter paper + dry fines (in g)	3.03
Weight dry fines (in g)	0.77
Weight of dry sand (in g)	2.05
Gas Displacement (in ml)	174.00
Weight of lime (in g)	0.78
% of sand	38.61
% of fines	14.50
% of lime	14.72
% of acid solubles	32.17

Observations (dissolution of binder, color of liquid, reaction):

Immediate semi-aggressive reaction; liquid truns brownish-yellow; somewhat long reaction (about 5 minutes)

Characterization of Sand:

			wt (gm)	%
Microscopic Examination:	wt./% finer than	4.75mm	0.00	0
Sub-rounded to angular; well sorted; mostly quartz (clear, opaque,		2.36mm	0.00	0
cirtine, smoky); some mica?; small amounts of granite?		1.18mm	0.09	4.390244
		600µm	0.36	17.56098
		300µm	0.88	42.92683
		150µm	0.48	23.41463
		75µm	0.20	9.756098
		53µm	0.04	1.95122
		38µm	0.00	0
	Total sand weight		2.05	

Munsell Color(s) of Sand:

brown (10YR5/3), but multicolored

