# Chicora Foundation Gas Displacement Mortar Analysis Data Sheet

Name:	Edison Rosendale 14S	Sample No.:	2005-10
Date:	8/129/05	Origin of Sample:	Edison Coatings #3012; reported to be 1.6:0.4:1 Rosendale:lime:sand; 28-day set

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

Light gray (10YR7/2); somewhat friable; slightly rough texture; many inclusions, some black, mica like

# Mortar Analysis

Original weight of powdered sample (in g)	5.54
Weight of filter paper (in g)	2.25
Weight of filter paper + dry fines (in g)	3.23
Weight dry fines (in g)	0.98
Weight of dry sand (in g)	2.44
Gas Displacement (in ml)	59.00
Weight of lime (in g)	0.27
% of sand	44.04
% of fines	17.69
% of lime	4.78
% of acid solubles	33.48

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

Immediate semi-aggressive reaction, but died down quickly; liquid turned yellowish brown; reaction lasted for about 5 minutes

# Characterization of Sand:

tonization of band.				
			wt (gm)	%
Microscopic Examination:	wt./% finer than	4.75mm	0.00	0
Sub-rounded to angular; well sorted; majority is guartz (clear,		2.36mm	0.00	0
opaque, citrine, smoky), also some mica?, perhaps granite?		1.18mm	0.03	1.229508
		600µm	0.31	12.70492
		300µm	1.09	44.67213
		150µm	0.66	27.04918
		75µm	0.27	11.06557
		53µm	0.08	3.278689
		38µm	0.00	0
	Total sand weight		2.44	

Munsell Color(s) of Sand:

mostly brown (10YR5/3), but multi-colored

