

Chicora Foundation Mortar Analysis Data Sheet

Name: Michael Trinkley **Sample No.:** 2004-2
Date: 12/23/04 **Origin of Sample:** 38DR141, Tranquil Hill Plantation, main house basement stucco over brick

Visual Description of sample (color, texture, hardness, inclusions, etc.):
 Surface very hard, interior friable. Surface has parallel striations in stucco, perhaps a brushed surface. No evidence on sample of any painting. The stucco is 9.5 mm in thickness. Color is white, N9

Mortar Analysis

Original weight of powdered sample	15.39
Weight of filter paper	0.87
Weight of filter paper + dry fines	1.53
Weight dry fines	0.66
Weight of dry sand	8.18
% of sand	53.15
% of fines	4.29
% of dissolved binder	42.56

Observations (dissolution of binder, color of liquid, reaction):
 very aggressive, much foaming; green color

Characterization of Sand:

		wt. (gm)	%
Microscopic Examination: quartz, mica or schist, all subangular	wt. % finer than		
	4.75mm	0.00	0
	2.36mm	0.00	0
	1.18mm	0.01	0.122249
	600µm	0.32	3.91198
	300µm	6.01	73.47188
	150µm	1.63	19.92665
	75µm	0.20	2.444988
	53µm	0.01	0.122249
Total sand weight	8.18	0.00	0

Munsell Color(s) of Sand: very pale brown, 10YR8/2

