

Chicora Foundation Mortar Analysis Data Sheet

Name: Michael Trinkley **Sample No.:** 2004-4
Date: 12/23/04 **Origin of Sample:** 38CH932, Youghal Plantation, colonial structure, stucco on bricks

Visual Description of sample (color, texture, hardness, inclusions, etc.):
 Stucco is 1.1 cm in thickness, very hard on the exterior, soft on interior surface. Color is gray, 5YR6/1. There are very light parallel striations on the exterior, such as would be made by a brush. There is no indication of paint or whitewash on the sample.

Mortar Analysis

Original weight of powdered sample	12.17
Weight of filter paper	1.57
Weight of filter paper + dry fines	3.68
Weight dry fines	2.11
Weight of dry sand	3.97
% of sand	32.62
% of fines	17.34
% of dissolved binder	50.04

Observations (dissolution of binder, color of liquid, reaction):
 Aggressive reaction, green-yellow foam and liquid. Binder completely dissolved.

Characterization of Sand:

		wt. (gm)	%
Microscopic Examination: Rounded grains; quartz dominant	wt. % finer than	4.75mm	0.00
		2.36mm	0.00
		1.18mm	0.04
		600µm	0.21
		300µm	0.98
		150µm	2.43
		75µm	0.29
		53µm	0.02
		38µm	0.00
Total sand weight		3.97	

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

