

Chicora Foundation Mortar Analysis Data Sheet

Name: Michael Trinkley **Sample No.:** 2004-11
Date: 12/23/04 **Origin of Sample:** Midway Church, Georgia. Stucco from brick wall surrounding cemetery

Visual Description of sample (color, texture, hardness, inclusions, etc.):
 Contorted, many white lumps, moderately hard. Surface smooth, but eroded. Surface color is pinkish-white, 7.5YR8/2.

Mortar Analysis

Original weight of powdered sample	11.92
Weight of filter paper	1.56
Weight of filter paper + dry fines	6.21
Weight dry fines	4.65
Weight of dry sand	0.83
% of sand	6.96
% of fines	39.01
% of dissolved binder	54.03

Observations (dissolution of binder, color of liquid, reaction):
 Very aggressive reaction, but over quickly. Liquid is a brown-green.

Characterization of Sand:

Microscopic Examination:
 Rounded quartz, small black mineral frags (possibly coal), white sandy concretions (no acid reaction).

	wt. /% finer than		wt (gm)	%
	4.75mm		0.00	0
	2.36mm		0.00	0
	1.18mm		0.02	2.409639
	600µm		0.06	7.228916
	300µm		0.18	21.68675
	150µm		0.21	25.3012
	75µm		0.35	42.16867
	53µm		0.01	1.204819
	38µm		0.00	0
Total sand weight			0.83	

Munsell Color(s) of Sand: white, 7.5YR8/1

