Chicora Foundation Mortar Analysis Data Sheet

Name:	Pon Pon 14	Sample No.:	2005-1
Date:	1/24/05	Origin of Sample:	wall mortar from brick wall

Visual Description of sample (color, texture, hardness, inclusions, etc.): Soft, friable, fine sand w/ mod. amounts of white lumps, ca. 1-2mm in diam. Color is light gray 10 YR 7/2.

Mortar Analysis

Original weight of powdered sample	19.81
Weight of filter paper	0.86
Weight of filter paper + dry fines	9.17
Weight dry fines	8.31
Weight of dry sand	5.08
% of sand	25.64
% of fines	41.95
% of disolved binder	32.41

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

Vigorous but short lived. Brown liquid. Several larger white particles took longer to dissolve.

Characterization of Sand:

				wt (gm)	%
Microscopic Examination:		wt./% finer than	4.75mm	0.00	0
1.18mm is rounded, predominately quartz.			2.36mm	0.00	0
710µm is rounded, some subangular, mostly quartz, s	some UID		1.18mm	0.03	0.590551
material.			600µm	0.08	1.574803
300µm is subangular and rounded, mostly quartz		300µm	0.36	7.086614	
150µm is subangular and rounded, mostly quartz, so		150µm	0.03	0.590551	
material.	75µm		75µm	4.20	82.67717
subangular and rounded quartz.	53µm is		53µm	0.38	7.480315
subangular and round, mostly quartz, with rounded bl		38µm	0.00	0	
material.		Total sand weight		5.08	

Munsell Color(s) of Sand:

light gray 10 YR 7/2

