

# Chicora Foundation Mortar Analysis Data Sheet

**Name:** Pon Pon 14                                      **Sample No.:** 2005-2  
**Date:** 1/24/05    **Origin of Sample:** decorative pointing on brick wall

**Visual Description of sample (color, texture, hardness, inclusions, etc.):**  
 Hard, not friable, inclusions of < 1 mm. Color is white (pure white) 10YR 8/1

**Mortar Analysis**

Original weight of powdered sample	16.53
Weight of filter paper	0.82
Weight of filter paper + dry fines	3.03
Weight dry fines	2.21
Weight of dry sand	2.08
% of sand	12.58
% of fines	13.37
% of dissolved binder	74.05

**Observations (dissolution of binder, color of liquid, reaction):**  
 Vigorous reaction, brown liquid, several large white particles took a long time to dissolve (~15 to 20 minutes)

**Characterization of Sand:**

**Microscopic Examination:**  
 1.18mm to 300µm almost all quartz; subangular; several white, angular flecks; a few black, subangular flecks.  
 150µm to 75 µm black flecks, UID material.

	wt.-% finer than		wt (gm)	%
	4.75mm		0.00	0
	2.36mm		0.00	0
	1.18mm		0.03	1.442308
	600µm		0.13	6.25
	300µm		0.46	22.11538
	150µm		0.60	28.84615
	75µm		0.81	38.94231
	53µm		0.05	2.403846
	38µm		0.00	0
Total sand weight			2.08	

**Munsell Color(s) of Sand:** very pale brown 10 YR 8/2

