

Chicora Foundation Mortar Analysis Data Sheet

Name: Michael Trinkley **Sample No.:** 2004-1
Date: **Origin of Sample:** 38DR141, Tranquil Hill Plantation main
house plaster base coat

Visual Description of sample (color, texture, hardness, inclusions, etc.):
Soft, friable, abundant white to occasional gray shell fragments, some up to 1 cm. in diameter. Overall very pale orange, 10YR8/2

Mortar Analysis

| | |
|------------------------------------|-------|
| Original weight of powdered sample | 12.09 |
| Weight of filter paper | 0.87 |
| Weight of filter paper + dry fines | 1.32 |
| Weight dry fines | 0.45 |
| Weight of dry sand | 5.92 |
| % of sand | 48.97 |
| % of fines | 3.72 |
| % of dissolved binder | 47.31 |

Observations (dissolution of binder, color of liquid, reaction):
Aggressive, liquid is a green-brown

Characterization of Sand:

Microscopic Examination:
quartz, uid white material, all rounded

| | wt. /% finer than | | wt (gm) | % |
|--------------------------|-------------------|--|---------|----------|
| | 4.75mm | | 0.00 | 0 |
| | 2.36mm | | 0.00 | 0 |
| | 1.18mm | | 0.40 | 6.756757 |
| | 600µm | | 0.15 | 2.533784 |
| | 300µm | | 0.82 | 13.85135 |
| | 150µm | | 3.85 | 65.03378 |
| | 75µm | | 0.67 | 11.31757 |
| | 53µm | | 0.03 | 0.506757 |
| | 38µm | | 0.00 | 0 |
| Total sand weight | | | 5.92 | |

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

