**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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>wt (gm)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original weight of powdered sample</td>
<td>11.92</td>
<td></td>
</tr>
<tr>
<td>Weight of filter paper</td>
<td>1.56</td>
<td></td>
</tr>
<tr>
<td>Weight of filter paper + dry fines</td>
<td>6.21</td>
<td></td>
</tr>
<tr>
<td>Weight dry fines</td>
<td>4.65</td>
<td></td>
</tr>
<tr>
<td>Weight of dry sand</td>
<td>0.83</td>
<td></td>
</tr>
<tr>
<td>% of sand</td>
<td>6.96</td>
<td></td>
</tr>
<tr>
<td>% of fines</td>
<td>39.01</td>
<td></td>
</tr>
<tr>
<td>% of dissolved binder</td>
<td>54.03</td>
<td></td>
</tr>
</tbody>
</table>

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

**Characterization of Sand:**

**Microscopic Examination:**
- wt.% finer than 4.75mm: 0.00  
- 2.36nm: 0.00  
- 1.18mm: 0.02  
- 600µm: 0.06  
- 300µm: 0.18  
- 150µm: 0.21  
- 75µm: 0.35  
- 53µm: 0.01  
- 38µm: 0.00  

**Total sand weight:** 0.83

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

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**Sand Size Analysis**

![Sand Size Analysis Diagram](image-url)