|  |  |  |  |
| --- | --- | --- | --- |
| material | Dry loose Density g/L or Kg/m3 |  |  |
| sand | 1397 |  |  |
| cement | 1109 |  |  |
| clay | 742 |  |  |
| lime | 620 |  |  |
|  |  |  |  |

Mixing the dry materials 900 ml of sand with 300 ml lime,300 ml OPC, 300 ml powdered clay which is a total of 1800 ml, but when mixed dry comes to 1350 ml. because the finer materials fill the spaces between the courser ones.

Aa further reduction in volume occurs when water is added and integrated into the mix, producing 1250 ml with a weight of 2194g, producing a wet density of 1755 g/L (1755 Kg/m3)