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CIVIL ENGINEERING FORMULAS . ABOUT THE AUTHOR Tyler G. Hicks, P.E., is a consulting engineer and a successful engi-neering book author. He has worked in plant design and operation in a variety of industries, taught at several engineering schools, and lectured both in the United States and abroad. Mr.

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Volume of plastering = 100 x 0.02 = 2 m 3. Adding 20% to fill up the joints = 2 + 2 x (20/100) = 2.4 m 3. Increasing 20% for dry volume = 2.4+ 2.4 x (20/100) (30% can also be used) = 2.88 m 3. approx 3 m 3. For 1:6 cement mortar, Volume of cement = 3 / (1+6) = 0.43 m 3. Volume of sand = 3 – 0.43 = 2.57 m 3.

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