

Preparation of Cubes ? Operate the compression testing machine using the supplied operational manual. Immediately after mixing, fill the molds heaping full without compacting while resting on an un-oiled metal base plate. Use a graduated cylinder to measure out the mixing water so that the water-cement ratio is 0.40, 0.45, and 0.50. Apply this pressure 12 times to each cube over the entire surface, then heap the mortar above the mold and smooth it off with a trowel. Weigh out the cement and the sand separately so that the total weight is 2250 gm ? Then press the mortar in firmly, using both 11 thumbs simultaneously. Curing of the Specimens All specimens will be moist cured for one day and after moist curing the specimens will be water cured in water curing tub. Add the remainder of the sand and mix vigorously for 2 min. Repeat the operation of heaping, thumbing and smoothing off. Measure the critical cross-sectional dimensions to the nearest 0.01 in. ? (600 gm cement, 1650 gm sand). Following steps are to be followed for mixing the ingredients: ??????????????