

# Mixing Plaster for Slip Casting Molds

**To Find Cubic Inch Volume:**

height x width x depth = cubic inches

**To Find Volume of Plaster for Cubic Volume:**

cubic inches  $\div$  58 = quarts

quarts – 20% (multiply by .20) = volume of H2O needed

refer to chart below

## Plaster Mixing Chart

### H2O

1 quart

1 1/2 quarts

2 quarts

2 1/2 quarts

3 quarts

3 1/2 quarts

### Plaster

2 lbs. 14 oz. (1,293 grams)

4 lbs. 4 oz. (1,937 grams)

5 lbs. 11 oz. (2,585 grams)

7 lbs. 2 oz. (3,230 grams)

8 lbs. 9 oz. (3,878 grams)

10 lbs. (4,522 grams)

Measure out H2O and pour into bucket. Measure out plaster and sift into H2O slowly to prevent lumps. Allow plaster to “slake” (sit in water so all plaster molecules are surrounded by H2O) for 5 minutes before mixing. Slowly mix plaster until there are no lumps and you have a homogenous mixture. When plaster is the consistency of cream slowly pour into your mold. Make sure the plaster is at least 1” above the top of your model. Gently bang, thump, or bump plastic mold to dislodge any bubbles. Plaster will get hot as it sets, once the plaster is cool to the touch it is safe to remove from mold. Allow to dry for 1 week before using to cast.