

Plasters

Trinity distributes US Gypsum plasters and gypsum cements. We try to keep all plasters listed in stock at all times. A variety of other US Gypsum plasters are stocked on an as needed basis. If you don't find what you need, please call Trinity at (214) 631-0540 to find out what we have on hand. When looking at the mixing ratios below, keep in mind that a pint of water weighs 1.04 pounds.

#1 Pottery Plaster

The standard of the pottery industry for making ceramic molds for casting, plaster bats, filling wedging tables and for general ceramic applications.

Ratio: 1lb. 7 oz. Plaster to 1lb. water

Working time: 20-25 minutes

Compressive strength: 2,000 psi

#1 Molding & #1 Casting Plaster

Similar to #1 Pottery Plaster but better suited for architectural moldings, carving media and other applications.

Ratio: 1lb. 7 oz plaster to 1 lb. water

Working time: 20 - 25 minutes

Compressive strength: 2, 000 psi

White Hydrocal Gypsum Cement

Typically used for casting solid and hollow figures. Useful where thin cross sections and high strength are desired to minimize breakage during mold removal.

Ratio: 2 lbs. 3 oz.plaster to 1 lb. water

Working time: 25 - 35 minutes

Compressive strength: 5,000 psi

Hydrostone

Hard and strong, this plaster is especially desirable where good water resistance and durability are desired. Used for statuary and high quality artware. Hydrostone is normally used to make blocks and case master molds for ceramic working molds.

Ratio: 3lbs. plaster to 1 lb. water

Working time: 17 –20 minutes

Compressive strength: 10,000 psi

Ultracal 30

A low-absorption gypsum cement for

case molds generally used for making patterns. Excellent surface hardness and low expansion during curing.

Ratio: 2 lb. 10 oz. Plaster to 1 lb. water

Working time: 25 – 30 minutes

Compressive strength: 6,000 psi

Statuary Hydrocal – SC

This product is effective for slush cast and hollow cast applications and has good dry strength. Statuary hydrocal has been formulated to minimize pinhole problems in the fabrication process.

Ratio: 2lb. plaster to 1 lb. water

Working time: 13 –16 minutes

Compressive strength: 6,950 psi

Ceramical

A low-consistency form of Gypsum Cement compounded to produce a smooth-wearing mold material designed for use in pressing clayware. This is a low heat mix that allows thick sections of molds to set up without cracking.

Ratio: 2 lbs. 8 oz. plaster to 1 lb. water

Working time: 18 –23 minutes

Compressive strength: 6,500 psi

U.S. Gypsum publishes an excellent technical bulletin called "Using Plaster in Ceramic." You can request a copy by writing:

United States Gypsum Company, Industrial Gypsum Division, P.O. Box 80387, Chicago, IL 60680-3871