USG Industrial & Specialty Solutions



USG NO. 1 CASTING PLASTER SOUTHARD, OK

DESCRIPTION USG No. 1 Casting Plaster is an excellent product for manufacturing figurines, plaques and lamp bases. USG No. 1 Casting Plaster produces a harder working surface with reduced paint absorption. If information for a specific use is needed, please contact your local USG Sales Representative for further assistance. **TYPICAL PHYSICAL PROPERTIES** Normal Consistency 60 - 66 lbs. water/100 lbs. product (27 - 30 kg water/45 kg product) Hand Mix Vicat Set. Target 25 - 50 minutes **Compressive Strength. One Hour After Set** 1200 psi (8.3 MPa) **Compressive Strength, Dry** 2400 psi (16.5 MPa) Density, Wet 100 lbs./cu. ft. (1602 kg/m3) Density, Dry 72 lbs./cu. ft. (1153 kg/m3) % Maximum Expansion 0.21% NOTE The Typical Physical Properties in the above table were achieved under controlled laboratory conditions with freshly produced material, results may vary. Other set times may be available; call your USG Sales Representative for more information. **MIXING INSTRUCTIONS** Use potable water at temperatures between 70 °F (21 °C) and 100 °F (38 °C). Because variations in slurry (USG No. 1 Casting Plaster and water mixture) temperature produce variations in set MIX PREPARATION time, it is important to keep both the USG No. 1 Casting Plaster and water in a stable temperature environment prior to use. The higher the temperature of the slurry, the shorter the set time. Conversely, the lower the temperature of the slurry, the longer the set time. Weigh both the USG No. 1 Casting Plaster and the water prior to use for each mix. The water-to-USG No. 1 Casting Plaster ratio is critical because it governs the strength and absorptivity of the mold. SOAKING Sift or strew USG No. 1 Casting Plaster into the water slowly and evenly. Do not drop large amounts of USG No. 1 Casting Plaster directly into the water as proper soaking of the USG No. 1 Casting Plaster may not occur. USG No. 1 Casting Plaster should be fully dispersed in the water prior to mixing. Small batches require less soaking time than large batches. See USG IG503 Plaster Mixing Procedures for specific soaking instructions. MIXING Mixing USG No. 1 Casting Plaster slurry is one of the most important steps in producing USG No. 1 Casting Plaster molds with maximum strength, absorption, hardness and other important properties. Mechanically mixed slurries develop uniform molds with optimal strengths. USG No. 1 Casting Plaster can be mechanically mixed through both batch and continuous processes. Proper blade and bucket dimensions are important for obtaining the best batch mix (see USG IG503 Plaster Mixing Procedures for details). Longer mixing times result in higher mold strength and shorter set times.



POURING	Casting Plaster slurry is ne prevent air at or near the r be poured carefully in the case mold. Pouring a large amount of densification of the USG N case. This produces a harc	ecessary. Agitation/vibration of nold surface. Whenever possibl deepest area so that the slurry slurry directly on the face of th io. 1 Casting Plaster mold at the l spot, giving uneven absorption be dried as quickly as is safely p	ossible after manufacture so that
	The best drying rooms or (4.6-9.1 mps)) of air with n throughout the entire area it with fresh air. High humi because the air pulled into The maximum temperatur 120 °F (49 °C). With subst. without difficulty. As dryin Before removing molds fro	o "dead spots" having little or r a, and 3) provisions for exhausti dity surrounding the drying roc the room is incapable of pickin e at which USG No. 1 Casting Pl antial free water in the mold, a g progresses, the temperature on the dryer, the temperature s	ant weight. pid circulation (minimum of 15-30 fps no air movement, 2) equal temperatures ng a portion of the air while replacing om or oven inhibits drying efficiency ng up much moisture from the molds. aster molds are safe from calcination is nigher drying temperature can be used must be reduced to prevent calcination. should approach that of the area around <i>ster Casts</i> for additional information.
STORAGE AND USE	Labeling of Hazardous Art at temperatures between two pallets high. Keep from	Materials Act, 12 U.S.C. Section 65 °F - 75 °F (18 °C - 24 °C) and m drafts. Rotate stock. USG No. uring date located on the packa	work with and complies with the federal 1277 and ASTM D4236. Keep indoors 145% - 55% RH. Do not stack more than 1 Casting Plaster should be used within age. Always follow handling and use
PRODUCT INFORMATION See usg.com for the most up-to-date product information.			
CAUTION When mixed with water, this material hardens and becomes very hot sometimes quickly. DO NOT attempt to make a cast enclosing any part of the body using this material. Dust from mixing may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If on skin: Wash with plenty of water. If swallowed and/or irritation persists, call physician. For more information call Product Safety: 800-507-8899 or see the SDS at usg.com KEEP OUT OF REACH OF CHILDREN.			
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SAFETY FIRST! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.	Manufactured by United States Gypsum Company 550 West Adams Street Chicago, IL 60661	IG1375-USA-ENG/rev. 10-17 © 2017 USG Corporation and/or its affiliates. All rights reserved. Printed in U.S.A.	USG.