## **USG WHITE ART PLASTER** SOUTHARD, OK

USG White Art Plaster is a specially formulated interior casting plaster used to create hollow and solid novelty art castings such as statues and lamps. USG White Art Plaster gives excellent detail and 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	65 - 70 lbs. water/100 lbs. product (29 - 32 kg water/45 kg product)		
	Hand Mix Vicat Set, Target	25 - 50 minutes		
	Compressive Strength, One Hour After Set	1000 psi (6.9 MPa)		
	Compressive Strength, Dry	2000 psi (13.8 MPa)		
	Density, Wet	99 lbs./cu.ft. (1586 kg/m³)		
	Density, Dry	69 lbs./cu.ft. (1105 kg/m³)		
	% Maximum Expansion	0.21%		
	<b>NOTE</b> The <i>Typical Physical Properties</i> 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 informati			
MIXING INSTRUCTIONS MIX PREPARATION	Use potable water at temperatures between 70 °F (21 °C) and 100 °F (38 °C). Because variations in slurry (USG White Art Plaster and water mixture) temperature produce variations in set time, it is important to keep both the USG White Art 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 White Art Plaster and the water prior to use for each mix. The water-to-USG White Art Plaster ratio is critical because it governs the strength and density of the final cast.			
SOAKING	Sift or strew USG White Art Plaster into the water slowly and evenly. Do not drop large amounts of USG White Art Plaster directly into the water as proper soaking of the USG White Art Plaster may not occur. USG White Art Plaster should be fully dispersed in the water prior to mixing. Small batches require less soaking time than large batches. See USG IG503 <i>Plaster Mixing Procedures</i> for specific soaking instructions.			
MIXING		s one of the most important steps in producing USG White Art bsorption, hardness and other important properties.		
	Mechanically mixed slurries develop uniform casts with optimal strengths. USG White Art 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 <i>Plaster Mixing Procedures</i> for details).			
	Increasing mixing times results in high	n higher cast strength and shorter set times.		



## & Specialty Solutions

DESCRIPTION

Industrial

USG

POURING	To prevent air entrainment and provide a uniform, smooth surface, careful pouring of USG White Art Plaster slurry is necessary. Agitation/vibration of the filled mold is a further step used to prevent air at or near the mold surface. Whenever possible, USG White Art Plaster slurry should be poured carefully in the deepest area so that the slurry flows evenly across the surface of the mold. Pouring a large amount of slurry directly on the face of the mold may result in slight densification of the USG White Art Plaster mold at the point where it strikes the surface of the case. This produces a hard spot, giving uneven absorption.		
DRYING		e dried as quickly as is safely pos rties can develop. Dry to a const	
	(4.6-9.1 mps)) of air with r throughout the entire are it with fresh air. High hum	no "dead spots" having little or n a, and 3) provisions for exhaustii idity surrounding the drying roo	pid circulation (minimum of 15-30 fps to air movement, 2) equal temperatures ng a portion of the air while replacing m or oven inhibits drying efficiency g up much moisture from the casts.
	120 °F (49 °C). With subst initially without difficulty. calcination. Before removi	cantial free water in the mold, a h As drying progresses, the temp ng molds from the dryer, the tem	er casts are safe from calcination is higher drying temperature can be used erature must be reduced to prevent operature should approach that of the area <i>ng Plaster Casts</i> for additional information.
STORAGE AND USE	When properly used, USG White Art Plaster is easy to work with and complies with the federal Labeling of Hazardous Art Materials Act, 12 U.S.C. Section 1277 and ASTM D4236. Keep indoors at temperatures between 65 °F - 75 °F (18 °C - 24 °C) and 45% - 55% RH. Do not stack more than two pallets high. Keep from drafts. Rotate stock. USG White Art Plaster should be used within 6 months of the manufacturing date located on the package. Always follow handling and use directions and safety warnings on the package.		
PRODUCT INFORMATION			
See usg.com for the most up-to-date product information.			
CAUTON 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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