

USG DENTAL PLASTER – REGULAR SOUTHARD, OK

DESCRIPTION

USG Dental Plaster - Regular is designed for use in oral impression work. It is easy to use and offers many applications for dental stones. Its set time can be altered by the use of accelerators or retarders. Water soluble, USG Dental Plaster – Regular requires no organic solvents for cleanup.

Please contact your local USG Sales Representative for further assistance for specific use information.

TYPICAL PHYSICAL PROPERTIES

Normal Consistency	63 - 73 lbs. water/100 lbs. product (29 - 33 kg water/45 kg product)
Hand Mix Vicat Set, Target	15 - 30 minutes
Color	White
% Passing - 100 Mesh	98.5
Compressive Strength, Dry	2000 psi (13.8 MPa)
% Expansion	0.20%

NOTE: The *Typical Physical Properties* in the above table were achieved under controlled laboratory conditions with freshly produced material, results may vary.

MIXING INSTRUCTIONS

MIX PREPARATION

Use potable water at temperatures between 70 °F (21 °C) and 100 °F (38 °C). Because variations in slurry (USG Dental Plaster - Regular and water mixture) temperature produce variations in set time, it is important to keep both the USG Dental Plaster - Regular 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 Dental Plaster - Regular and the water prior to use for each mix. The water-to-USG Dental Plaster - Regular ratio is critical because it governs the strength and the density of the final cast.

SOAKING

Sift or strew USG Dental Plaster - Regular into the water slowly and evenly. Do not drop large amounts of USG Dental Plaster - Regular directly into the water as proper soaking of the USG Dental Plaster - Regular may not occur. USG Dental Plaster - Regular 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 Dental Plaster - Regular slurry is one of the most important steps in producing USG Dental Plaster - Regular casts with maximum strength, absorption, hardness and other important properties.

Mechanically mixed slurries develop uniform casts with optimal strengths. USG Dental Plaster - Regular 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

To prevent air entrainment and provide a uniform, smooth surface, careful pouring of USG Dental Plaster - Regular 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 Dental Plaster - Regular slurry should be poured carefully in the deepest area so that the slurry flows evenly across the surface of the case mold.

Pouring a large amount of slurry directly on the face of the case mold may result in slight densification of the USG Dental Plaster - Regular mold at the point where it strikes the surface of the case. This produces a hard spot, giving uneven absorption.

DRYING

All casts should be dried as quickly as is safely possible after manufacture so that maximum physical properties can develop. Dry to a constant weight.

The best drying rooms or ovens provide 1) uniform and rapid circulation (minimum of 15-30 fps (4.6-9.1 mps)) of air with no "dead spots" having little or no air movement, 2) equal temperatures throughout the entire area, and 3) provisions for exhausting a portion of the air while replacing it with fresh air. High humidity surrounding the drying room or oven inhibits drying efficiency because the air pulled into the room is incapable of picking up much moisture from the molds.

The maximum temperature at which USG Dental Plaster - Regular molds are safe from calcination is 120 °F (49 °C). With substantial free water in the mold, a higher drying temperature can be used without difficulty. As drying progresses, the temperature must be reduced to prevent calcination. Before removing molds from the dryer, the temperature should approach that of the area around the dryer to prevent thermal shock. See IG502 *Drying Plaster Casts* for additional information.

STORAGE AND USE

When properly used, USG Dental Plaster - Regular is safe to handle and easy to work with. 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 Dental Plaster - Regular should be used within six 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.

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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NOTE

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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.

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