

FORM CR02

INDUSTRIAL PLASTER

THAILAND

DESCRIPTION

USG Boral Form CR02 is formulated using high quality hemihydrate plaster. It is designed specifically for the Ram pressing process, in which high strength with optimum absorption is required. Form CR02 allows easy releasing of clay ware from mold, minimizing water marks on the green ware.

PRODUCT

TYPICAL PHYSICAL PROPERTIES

	FORM CR02
Plaster to Water Ratio (%P/W)	286 - 313
Water to Plaster Ratio (%W/P)	32 - 35
Initial Setting Time by Knife Setting (minutes)	17 - 21
Final Setting Time by Shore A (minutes)	18 - 24
Fluidity by Schmidt Ring (mm)	190 - 230
Flexural Strength (MPa)	≥ 9.8

MIXING INSTRUCTIONS

MIX PREPARATION

Use potable water at temperature around 20-37 °C. Because variations in slurry (plaster and water mixture) temperature produce variations in set time, it is important to keep both USG Boral 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.

SOAKING

Weigh both the USG Boral Plaster and water prior to use for each mix. The water-to-plaster ratio is critical because it governs the strength and absorptivity of the mold.

Sift or strew USG Boral Plaster into the water slowly and evenly. Do not drop large amounts of USG Boral Plaster directly into the water as proper soaking of USG Boral Plaster may not occur. USG Boral Plaster should be fully dispersed in the water prior to mixing. Small batches require less soaking time than large batches.

MIXING

Mixing USG Boral Plaster slurry is one of the most important steps in producing USG Boral Plaster molds with maximum strength, hardness and other important properties.

Mechanically mixed slurries develop uniform molds with optimal strengths. USG Boral Plaster can be mechanically mixed through both batch and continuous processes. Proper blade and bucket dimensions are important for obtaining the best batch mix.

Longer mixing times result in higher mold strength and shorter setting times.

POURING

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

STORAGE AND USE

When properly used, USG Boral Plaster is safe to handle and easy to work with. Keep indoors in a dry, stable environment. Do not stack more than two pallets high. Keep from drafts. Rotate stock. Always follow handling and use directions and safety warnings on the package.

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.

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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SAFETY FIRST!

Follow good safety/industrial hygiene practices when using industrial plasters. Wear appropriate personal protective equipment. Read SDS and literature before use.

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