

GCT 6000 PSI Structural Mortar

Structural Base Mortar Coat ASTM C-387



PRODUCT DESCRIPTION

GCT Structural Mortar Mix is a blend of cement, specially graded masonry sand, fibers and admixtures combined in carefully controlled proportions to give a product of consistent quality with good mixing, placing and finishing characteristics for base coats. The product is a sprayable structural mortar or can be hand troweled, that combines ease of mixing with excellent performance. It is also an **ENVIRONMENTALLY FRIENDLY PRODUCT** containing regional materials.

USES

GCT Structural Mix is a versatile product that can be used as structural mortar base coat over CMU, concrete, and GCT SCIPs components or similar materials. Also is designed for Blast Resistant Buildings using GCT Structural Components.

TECHNICAL DATA

GCT Structural Mortar Mix is a Portland cement based plaster that is in compliance with **ASTM C-387** requirements for structural mortars. Typical compressive strength results obtained with GCT Structural Mortar Mix, when tested in accordance with **ASTM C-109**, is 6000 psi (41.4 MPa) at 28 days.

SURFACE PREPARATION

Surfaces to be covered with GCT Structural Mortar Mix, should be sound, clean, dry, and free of dirt, debris, oil, wax, grease, dust or any other external contaminant that would prevent a good bond. Painted surfaces must be sanded and cleaned of waxes, dirt or any contaminants.

MIXING

Verify that mixing tools and containers are clean before mixing. To mix a 50 lbs bag, empty the entire dry contents into a container and add about 4.3 L (1.15 gal) of potable water. Mix thoroughly. If the mix is too stiff add more water until the desired consistency is obtained. Avoid a "soupy" mix since too much water will weaken the mortar. A workable mortar has a "buttery" texture without excessive bleeding and should slide off a trowel held at a 45 degree angle. If temperatures are expected to rise above 100°F (37.8°C) mix only enough mortar that can be placed in one hour. A mortar application equipment is recommended for larger project.

APPLICATION

Structural Mix must be applied with a trowel or by spraying, with subsequent passes, until the required thickness has been obtained. All cavities must be filled, the reinforcement rods must be carefully surrounded with the patching material and the mortar must be made compact, exercising adequate pressure during application. Finish off the mortar as it begins to set, using the appropriate floating equipment (rigid float, sponge spreader, smooth spreader). Structural Mix must be applied after having moistened the substrate to saturation point.

CURING

Curing of mortar is only required if conditions are hot, dry or windy. In such cases, spray a mist of water to the surface to prevent premature drying and improve the strength of the mortar. Try to keep the mortar protected from direct sunlight for the first 48 hours.

STORAGE

Store in a moderate temperature dry place protected against water or other external agents.

TECHNICAL DATA

Physical State	Gray Beige Powder
Shelf Life	1 year in original bag, in dry covered place.
Mixing Ratio	4.3 L (1.15 gal) of water for each 50lbs bag
Density	135 lbs/ft ³
Compressive Strength:	6000 psi (41.4 MPa) @ 28 days
Approximate Thickness Coverage per 50 Lbs Bag:	
At 1/4" (6,3 mm)	20-22 sq. ft (2,0 m ²)
Yield	Aproximately 0.45 ft ³

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