

## DESCRIPTION

### GOLD BOND BRAND TWO-WAY HARDWALL GYPSUM PLASTER

Gold Bond BRAND Two-Way Hardwall Plaster is a basecoat plaster which requires the job site addition of an aggregate and water to provide working qualities and is designed for interior use over all accepted plaster bases. It may be applied by hand or used through pump/spray plastering machines.

#### ADVANTAGES

##### Controlled Uniformity

Two-Way Hardwall Plaster is set-stabilized and adjusted for market requirements and seasonal changes. When mixed with sand or other aggregate it has uniform working qualities and excellent spread.

#### Strength

Two-Way Hardwall Plaster properly proportioned with aggregate forms a hard, durable base for the finish coat. Its high tensile and compressive strength results in increased resistance to minor structural movements, impacts and abrasions.

#### Fire Resistance

Two-Way Hardwall Plaster is essentially mineral in composition and will not support combustion.

#### Specification Reference

ASTM Designation C 28, "Gypsum Plasters".

#### Bag Weight

100 lbs. (45.4 kg)

## TECHNICAL DATA

### AGGREGATE PROPORTION AND ESTIMATED COVERAGE

Aggregate Proportions	Plaster Base (Sq. M./Metric Ton)	Coverage, Sq. Yds. per Ton (161-203)	Sq. Ft. (Sq. M.) per Bag (7-9)	Thickness In. (mm)
Sanded 1:2-1/2	Gypsum Lath	175-220 (161-203)	80-100 (7-9)	7/16" (11.1)
Sanded 1:2-1/2	Metal Lath	90-125 (83-115)	40-55 (4-5)	9/16"* (14.3)*
Sanded 1:3	Brick & Clay Tile Concrete Block	175-220 (161-203)	80-100 (7-9)	9/16" (14.3)

\*Measured from face of lath.

NOTE: Sanded 1:2-1/2 means 1 part plaster to 2-1/2 parts sand by weight.

### WEIGHT COMPARISON OF BASECOAT PLASTERS

Dry Set Mortar Weight	Sanded 1.3	Gypsolite Regular
Weight lbs. per cu. ft. (kg/m <sup>3</sup> )	120 (1922)	50 (801)
Lbs./yd. <sup>2</sup> (kg/m <sup>2</sup> ) 3/8" (9.5 mm) thick	34 (18)	14 (8)
Lbs./yd. <sup>2</sup> (kg/m <sup>2</sup> ) 1/2" (12.7 mm) thick	45 (24)	19 (10)
Lbs./yd. <sup>2</sup> (kg/m <sup>2</sup> ) 5/8" (15.9 mm) thick	56 (30)	24 (13)
Lbs./yd. <sup>2</sup> (kg/m <sup>2</sup> ) 3/4" (19.0 mm) thick	67 (36)	29 (16)
<b>Wet Mortar Weight</b>		
Weight lbs. per cu. ft. (kg/m <sup>3</sup> )	140 (2243)	69 (1105)

## DESCRIPTION

### GOLD BOND BRAND GYPSOLITE PLASTER

Gold Bond BRAND Gypsolite is a lightweight gypsum basecoat plaster mixed at the mill with correctly sized and proportioned perlite aggregate, requiring only the addition of water on the job. It is manufactured to be trowel-applied over gypsum or metal lath.

#### ADVANTAGES

##### Uniform Strength and Hardness

Uniformity is ensured through exact proportioning and thorough mixing of graded perlite and gypsum plaster at the mill. Gypsolite provides a uniform base for the finish coat.

##### Lightweight

Gypsolite weighs less than half as much as sanded gypsum plaster, thus reducing the dead-load on framing.

##### High Insulating Value

Gypsolite has a "k" factor of 1.5 which provides about 3 1/2 times the insulating value of sanded plaster.

## TECHNICAL DATA

### GYPSOLITE ESTIMATED COVERAGE

Plaster Base	Coverage, Sq. Yds. per Ton (Sq. M./Metric Ton)	Sq. Ft. (Sq. M.) per Bag	Thickness In. (mm)
Gypsum Lath	140-155 (129-143)	50-55 (4-5)	7/16" (11.1)
Metal Lath	65-80 (60-74)	25-30 (2-3)	9/16"* (14.3)*

\*Measured from face of lath.

#### LIMITATIONS

When used over metal lath, a sand float finish should be specified. A smooth-trowel finish is not recommended since the combination of a relatively soft (perlite aggregated) basecoat and a hard (smooth-trowel lime/gauging) finish has the potential for cracking and spalling of the finish coat.

#### Fire Resistance

Gypsolite has excellent fire-resistive qualities and generally provides fire ratings higher than sanded plaster.

#### Specification Reference

ASTM Designation C 28 for "Gypsum Plasters".

#### Bag Weight

80 lbs. (36.3 kg)

25 lbs. (11 kg)

#### Water Ratio

1.2 gallons of water per 25 lbs. of plaster.



## PHYSICAL PROPERTIES OF BASECOAT PLASTERS (TYPICAL TEST RESULTS PER ASTM C 472)

Plaster Properties	Gypsolite Regular	Two-Way Hardwall						
		Gypsum Plaster to Sand by Weight			Gypsum Plaster and Vermiculite		Gypsum Plaster and Perlite	
		1:1	1:2	1:3	Regular	Masonry	Regular	Masonry
Mix	Mill Mix	1:1	1:2	1:3	100 lbs. (45.4 kg) 2 cu. ft. (.06 m³)	100 lbs. (45.4 kg) 3 cu. ft. (.08 m³)	100 lbs. (45.4 kg) 2 cu. ft. (.06 m³)	100 lbs. (45.4 kg) 3 cu. ft. (.08 m³)
Approximate Compressive Strength lbs. per sq. in. (kPa)	900 (6201)	1600 (11024)	1150 (7923)	750 (5168)	500 (3445)	300 (2067)	900 (6201)	650 (4479)
Approximate Tensile Strength lbs. per sq. in. (kPa)	160 (1102)	250 (1722)	190 (1309)	120 (827)	130 (896)	90 (620)	160 (1102)	100 (689)

## Finish Plasters

### DESCRIPTION

#### GOLD BOND BRAND GYPSUM GAUGING PLASTER (SUPER-WHITE)

Gold Bond BRAND Gauging Plaster, quick set or slow set type, is designed for use with finish lime. It is specially ground, calcined gypsum, which readily mixes with water and lime putty. Proper proportioning is essential, since gauging adds strength and hardness to the finish surface by reinforcing the plastic non-setting lime against shrinkage and cracking. A finish coat of gypsum gauging plaster and finish lime, job mixed 2 parts hydrated lime to 1 part plaster by weight, is designed primarily for interior smooth trowel application over a gypsum plaster basecoat. Smooth finish plasters should be applied at a thickness of not more than 1/16". Texture finishes should be applied at a thickness of not more than 1/8".

Complies with ASTM Designation C 28.

#### Bag Weight

Quick Set – 100 lbs. (45.4 kg) (50 lb. (22.7 kg) bags available in limited areas)

Slow Set – 100 lbs. (45.4 kg) (50 lb. (22.7 kg) bags available in limited areas)

### TECHNICAL DATA

#### GYPSUM GAUGING PLASTER

Method of Application	Coverage*
Trowel Finish	1000-1400 sq. yds./Ton (921-1290 m²/Metric Ton) 225-315 sq. ft./bag (21-29 m²/Bag)

\*With the addition of two tons of hydrated lime.

#### MILL-MIXED FINISH PLASTERS\*

Product	Method of Application	Coverage*
Kal-Kote Smooth Finish	Trowel	650-750 sq. yds./Ton (598-645 m²/Metric Ton)
Kal-Kote Texture Finish	Trowel	650-750 sq. yds./Ton (598-645 m²/Metric Ton)
Uni-Kal and X-KALibur	Trowel	600-665 sq. yds./Ton (553-613 m²/Metric Ton)

\*See page 46 for additional information.

#### GOLD BOND BRAND GYPSUM MOULDING PLASTER (SUPER-WHITE)

Gold Bond BRAND Moulding Plaster is a very white, finely ground gypsum, primarily used for all kinds of ornamental plaster work. Because of its low expansion, excellent strength and hardness, it is specially adaptable for casting in rubber, gelatin and other types of moulds. For casting purposes, only water is added. For run-in-place ornamental work, such as cornices, the moulding plaster is used with lime putty, mixed 2 parts lime to 1 part moulding plaster by weight.

Complies with ASTM Designation C 59.

#### Bag Weight

100 lbs. (45.4 kg) (50 lbs. (22.7 kg) available in limited areas)

Note: Application of plaster shall be in accordance with ASTM C 842.

#### Water Ratio

6.5 gallons of water per 100 lb. bag.

#### MILL-MIXED FINISH PLASTERS

For a mill-mixed finish plaster, use Kal-Kote Smooth Finish, Kal-Kote Texture Finish Plaster, Uni-Kal or X-KALibur Extended Set Veneer Plaster. Requires the addition of water only. See page 46.

#### GYPSUM MOULDING PLASTER

Method of Application	Coverage*
Trowel Finish	1000-1400 sq. yds./Ton (921-1290 m²/Metric Ton) 225-315 sq. ft./bag. (21-29 m²/Bag)

\*With the addition of two tons of hydrated lime.

#### PAINTING PLASTER

Various job conditions such as suction differences, wet or only partially dry walls, and reactions between paint and lime have caused unsatisfactory paint finishes, particularly on new construction.

Alkali-resistant primers specifically formulated for use over new plaster will permit decorating with oil or latex type paints.

Quality paint products should be used and manufacturers' recommendations followed. Finished plaster should be painted or covered to conceal possible discoloration. The paint system should be suitable for use over plaster surfaces that contain lime, which has a high pH of 10-13.

It is essential that plaster be sound and completely dry before painting. Conventional plaster may require 30 to 60 days to fully dry.

