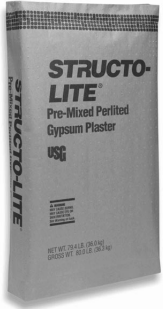


STRUCTO-LITE® Gypsum Plaster



Where a lightweight, high thermal conductivity conventional plaster applications is desired

- Mill-mixed perlite-aggregate gypsum plaster; requires only the addition of water at the jobsite.
- Ideal for areas where it is not desirable to mix aggregate with plaster on the job.
- Lightweight plaster; weighs less than half as much as sanded plaster.
- Excellent for areas requiring highly insulated plaster; provides “k” factor of 1.74, three times the insulation value of sanded plaster.

Description

STRUCTO-LITE® Gypsum Plaster is a mill-mixed perlite-aggregate gypsum plaster. It requires only the addition of water at the jobsite.

STRUCTO-LITE Gypsum Plaster is USG’s lightest-weight and most highly insulated plaster. STRUCTO-LITE Gypsum Plaster is available in two types: Regular for use over gypsum lath or metal lath; and Masonry for use on high-suction unit masonry base only.

STRUCTO-LITE Gypsum Plaster provides a plastic working material which will conform to various designs and help achieve durability in walls and ceilings. It can be applied by hand or machine methods, on gypsum or metal lath, clay tile, concrete or cinder blocks, or other approved plaster bases.

Fire Protection: Gypsum plasters, specially made for fire-protection applications, and used with specified plaster bases, provides excellent fire protection.

Sound Isolation: In certain systems, gypsum plasters offer sound transmission loss characteristics suitable for most requirements. Sanded basecoat plaster provides optimum results.

Control of Set: STRUCTO-LITE Gypsum Plaster is formulated for use in varying climatic conditions and job conditions. The quicker a gypsum plaster sets, the stronger the basecoat.

Limitations

1. Not recommended over metal lath when a smooth trowel finish is required.
2. Not recommended for machine application when vertical lift exceeds 30 ft. or hose length is over 150 ft.
3. This product requires a lime-gauging finish plaster containing a fine aggregate to control surface cracking.
4. Over interior monolithic concrete, USG™ Plaster Bonder must be applied before plastering.
5. Plaster application on masonry or concrete walls, or ceilings that have been coated with bituminous compounds or other waterproofing agents, is not recommended. The interior surface of exterior walls should be furred and lathed prior to plastering to prevent seepage and condensation.
6. Basecoat plasters must not die or stop against a hollow metal door frame return. Provision must be made to dampen the trim return vibration by grouting, and by the use of special anchors. The grout must be raked out to allow lath and plaster to be inserted into the frame.
7. Gypsum plasters should not be used where they will come into contact with water or excessive moisture.

Directions

Preparation

In cold weather, all glazing should be completed and the building heated to a minimum of 55 °F (13 °C) before gypsum base or lath and plaster installation. The temperature of the building must be maintained in uniform range above 55 °F for an adequate period prior to application of plaster, while plastering is being done, and until plaster is dry. Heat should be well distributed in all areas, with deflection or protective screens used to prevent concentrated or irregular heat on the plaster surfaces.

Ventilation and air circulation should be provided to properly dry the plaster subsequent to plaster applications and proper set. This can be accomplished by keeping windows open sufficiently to provide air circulation in glazed buildings; in enclosed areas lacking normal ventilation, provisions must be made to mechanically remove moisture-laden air.

If glazed sashes are not in place and the building is subject to hot, dry winds or temperature differentials from day to night of 20 °F (11 °C) or more, openings must be screened with cheesecloth or similar material.

Application

Mixing Conventional Plaster: STRUCTO-LITE Gypsum Plaster contains mill-mixed aggregate, so it is mixed with water *only* on the jobsite. Mix basecoat plaster by hand or in a mechanical mixer to a uniform consistency.

Applying Basecoat: Apply the basecoat plaster by hand or machine in one or two coats. Unit masonry surfaces that exhibit high suction shall be moderately wetted immediately before plastering.

For two-coat work over gypsum lath and masonry, apply the STRUCTO-LITE Gypsum Plaster basecoat (first coat) with sufficient material and pressure to form a good bond to the base and to cover well; then double back to bring the plaster out to grounds. Straighten to a true surface with a rod and darby without the use of additional water and leave rough to receive the finish (second) coat.

For three-coat work, apply the STRUCTO-LITE Gypsum Plaster scratch (first) coat with sufficient material and pressure to form good full keys on metal lath, and good bond on other bases, and then cross-rake. Apply brown (second) coat after scratch (first) coat has set firm and hard. Bring out to grounds and straighten to a true surface with a rod and darby without the use of additional water. Leave the brown coat rough to receive the finish (third) coat. See "Limitations" for information regarding finish plastering over STRUCTO-LITE Gypsum Plaster.

Product Data**Technical Data**

Plaster	Mix	Compressive Strength psi—dry ⁽¹⁾	Weight lb./cu. ft.—dry	Conductivity (k)
STRUCTO-LITE Gypsum Plaster (regular)	—	700	50	1.74

(1) Average laboratory results. Figures may vary slightly for products from individual mills. Tested in accordance with ASTM C472.

Approximate Coverage—sq. yd./ton

Product	Applied over a base of:		
	Gypsum Lath	Metal Lath	Unit Masonry
STRUCTO-LITE Gypsum Plaster	140	89	109

Compliance with Standards: Complies with ASTM Designation C28; STRUCTO-LITE Gypsum Plaster meets Federal Specification SS-P-00402B, Type I.

Thermal Coefficient of Expansion (Unrestrained): STRUCTO-LITE Gypsum Plaster— 7.3×10^{-6} in. per in. per °F (40-100 °F); 13.1 mm per mm per °C (4.5-37.8 °C).

Hygrometric Coefficient of Expansion (Unrestrained): STRUCTO-LITE Gypsum Plaster— 4.8×10^{-6} in. per in. per % relative humidity (5-90% r.h.); 4.8×10^{-6} relative humidity (5-90% r.h.).

Storage: Store material in a cool, dry place. Avoid direct sunlight. Maintain temperature above 40 °F (4 °C).

Shelf Life: Up to 6 months under protected storage conditions. Rotate stock.

Availability and Cost: STRUCTO-LITE Gypsum Plaster is distributed throughout the United States. Contact a United States Gypsum Company sales office or sales person for additional information.

Packaging: STRUCTO-LITE Gypsum Plaster is available in 50-lb. bags.

Submittal Approvals:

Job Name		
Contractor		Date

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Note
Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

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Safety First!
Follow good safety and industrial hygiene practices during handling and installing products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.