

CertainTeed Recommendations for Laminating Gypsum Panels Directly to Interior Masonry and Concrete

Note: Application shall conform to GA Standard GA-216-13, "Application and Finishing of Gypsum Panel Products"

Recommended Environmental Conditions as stated in GA-216-2013:

1. Where materials are being mixed or used for joint treatment or for laminating gypsum panel products the room temperature shall be maintained at not less than 50°F (10°C) for a period beginning not less than 48 hours before mixing or application and continuing until applied materials are thoroughly dry.
2. The room temperature shall be maintained at not less than 40°F (4°C) for mechanical application of gypsum panel products and at not less than 50°F (10°C) for adhesive application of gypsum panel products and for joint treatment, texturing and decoration unless otherwise specified by the manufacturer.
3. When a temporary heat source is used the temperature shall be not more than 95°F (35°C) in any given room or area.
4. When portable gas or kerosene heaters are used, the extra humidity that they produce shall be removed.
5. Adequate and continuous ventilation shall be provided in the working area during the installation and the drying or setting period.

For Laminating to concrete wall surfaces:

New concrete should be aged for 60 days prior to laminating. The surface of the concrete should be leveled prior to laminating. This might involve grinding down high areas. Any pieces of exposed metal should be primed with a quality, rust-inhibitive primer. It is also recommended to fill any voids and level offsets with CertainTeed™ High density setting compound. Final surface preparation should include: ensuring the surface is free of dust, loose particles and efflorescence; the surface should be free of all form oil, release agents, grease or any other foreign material. This is to ensure proper bonding of the panel to the concrete.

Prior to installation of full sized panels it is recommended that bond be tested by attaching a small section of board to the surface with the adhesive (please see below for details) that is to be used. After allowing for adequate time for the adhesive to fully cure (develops bond strength), pull from the surface. If the attachment fails, additional steps must be taken to clean the surface prior to full scale installation. The adhesive should never be applied to an area that will be subject to high levels of moisture. All wet-work should be completed prior to the installation. It is also important that the job site conditions must not be exposed to exterior weather conditions or be subjected to levels of high humidity or liquid water.

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Adhesive:

It is recommended that an appropriate construction adhesive, one designed specifically for bonding to concrete/masonry be used. Other options available are: CertainTeed™ High Density setting compound, with the allowance for mixing the product as per directed. Another option is CertainTeed™ Heavy Taping ready mix compound. Heavyweight taping compounds have bonding characteristics that are superior to standard ready mix all-purpose products or to light weight taping compounds.

Method:

1. Cut gypsum panels to allow continuous clearance of 1/8" to 1/4" (3 to 6 mm) at floor. Adhesive shall be applied either to the back surface of the gypsum panel or to the wall in continuous beads or daubs spaced no more than 12 inches (305 mm) on center. Beads shall not be less than 3/8" (10 mm) in diameter; daubs shall be not less than 2 inches (13 mm) thick with a row centered at the vertical gypsum panel product joints.
2. Gypsum panels should be positioned to provide a tight fit at abutting edges or ends. Do not slide panels. Mechanical fasteners or temporary bracing shall be used as required to support the gypsum panel products until adhesive bond develops.
3. Joint treatment or any finishing work should not be performed until the gypsum panel is firmly bonded and the adhesive is completely dry.

Marketing Technical Services

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