

TL-0002 — Substrate Preparation for Application of PERM-A-BARRIER® Products to Glass-Mat Faced Gypsum Sheathing Technical Letter

Glass-mat faced gypsum sheathing is used for direct mechanical application to structural framing as a backing for a variety of exterior claddings or as a soffit material. Its unique glass mat facing provides greater resistance to rain, heat and wind than regular paper-faced gypsum sheathing. The following are recommendations for substrate preparation when applying GCP's PERM-A-BARRIER products to glass-mat faced gypsum sheathing. Full membrane application guidelines are described on the product data sheets available for download at www.gcpat.com.

PERM-A-BARRIER® Fluid Applied Membranes

When installing PERM-A-BARRIER fluid applied membranes over glass-mat faced gypsum sheathing, no surface treatment is required. PERM-A-BARRIER fluid applied membranes have excellent adhesion to the surface of the glassmat faced gypsum sheathing. To ensure a quality application, we recommend of the following joint treatment option:

- To avoid deflection of glass-mat faced gypsum sheathing at panel joints, fasten corners and edges with appropriate screws as per manufacturer's recommendations.
- Completely fill the sheathing joint with PERM-A-BARRIER Universal Flashing and Sealant and then install a scratch coat (approx. 15-30 mils) of Universal Flashing and Sealant with a margin trowel or similar onto the face of the sheathing approximately 1 in. (25 mm) on each side of the sheathing joint, ensuring the edges are tapered to prevent shadowing of the spray application.
- Once the sealant is tack free, the PERM-A-BARRIER® fluid applied membrane may be applied.

Above steps are the preferred joint treatment for all PERM-A-BARRIER® fluid applied membranes.

PERM-A-BARRIER® Sheet Applied Membranes

PERM-A-BARRIER® Wall Membrane

PERM-A-BARRIER® VPS 30

PERM-A-BARRIER® NPS

PERM-A-BARRIER® Aluminum Wall Membrane

PERM-A-BARRIER® Wall Flashing

PERM-A-BARRIER® Aluminum Flashing

PERM-A-BARRIER® Detail Membrane

In order to ensure a quality application we recommend the following:

- To avoid deflection of glass-mat faced gypsum sheathing at panel joints, fasten corners and edges with appropriate screws as per manufacturer's recommendations.
- Gaps, voids, or sheathing joints exceeding 1/4" should first be repaired with a compatible sealant. Refer to Technical Letter 1: Chemical Compatibility of PERM-A-BARRIER® Self-Adhered Membranes with Other Materials for guidance.
- When installing PERM-A-BARRIER® VPS 30 & PERM-A-BARRIER NPS, gaps, voids or sheathing joints exceeding 1/8" should first be repaired with compatible sealant.
- When installing PERM-A-BARRIER® membranes that require primer, the surface of the sheathing must first be primed with PERM-A-BARRIER® WB Primer by roller, PERM-A-BARRIER® Adhesive Primer by spray, brush or roller, or PERM-A-BARRIER® Adhesive by roller. Coverage rates are provided in the respective data sheets for the primers which may vary depending on substrate and/or substrate roughness.

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Last Updated: 2025-05-13

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