

GOLD BOND® BRAND e²XP® TILE BACKER

MANUFACTURER

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DESCRIPTION

Gold Bond® BRAND e²XP® Tile Backer is an acrylic coated moisture and mold resistant gypsum panel specially designed for use as a substrate for tile applications in high moisture areas.

e²XP Tile Backer is manufactured with an enhanced moisture and mold resistant core and facer. The facer is composed of an acrylic coated fiberglass mat which provides superior moisture resistant capabilities.

e²XP Tile Backer is identified by National Gypsum's original PURPLE™ color on the back and gray acrylic coating on the front.

BASIC USES

e²XP Tile Backer is recommended as a substrate for tile and other finishes in both wet and non-wet areas, areas of high humidity and fire-rated assemblies. It is ideally suited for interior walls and ceilings.

ADVANTAGES

- Manufactured to meet ASTM C 1178 ("Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel").
- e²XP Tile Backer is GREENGUARD Children & SchoolsSM Certified for indoor air quality.
- e²XP Tile Backer is GREENGUARD Certified for microbial resistance per ASTM D 6329.

- Resists the growth of mold per ASTM D 3273 with a score of 10, the best possible rating.
- Achieves a flame spread of 0 and smoke developed of 0 per ASTM E 84.
- 5/8" e²XP Tile Backer contains a Fire-Shield Type X gypsum core and is approved for inclusion in specific UL fire-rated designs.
- Acrylic coated fiberglass facer provides an integral water barrier, eliminating the need for a separate water barrier.
- Excellent performance in high moisture environments such as baths, showers, kitchens and laundries.
- Recommended for both wet and non-wet applications.

LIMITATIONS

- For interior use only.
- Always apply tile/finishes to the gray acrylic face.
- Joints under tile should be treated with alkali-resistant fiberglass mesh tape set in thin-set mortar or tile adhesive.
- Conventional paper drywall tape, joint compound, drywall nails and drywall screws should not be used in wet areas.
- Not for use on floor installations.
- Not recommended for use in shower pans or shower curbs.
- Do not use as a base for nailing and mechanical fastening.
- Should not be exposed to temperatures exceeding 125°F (52°C).
- Continuous exposure to extreme conditions in applications such as saunas, commercial steam rooms and radiant barriers at fireplaces should be avoided. Use PermaBase® BRAND Cement Board for these applications.
- Do not install a vapor barrier directly behind tiled e²XP Tile Backer. Consult your local building code for vapor barrier requirements.
- Do not apply e²XP Tile Backer directly to concrete or masonry block.
- Fixture/plumbing penetrations and abutments to dissimilar materials must be caulked or sealed.

COMPOSITION & MATERIALS

e²XP Tile Backer is manufactured with a moisture and mold resistant gypsum core and fiberglass facers. The front of the panel has an additional acrylic coating that provides superior water and moisture resistance.

5/8" Fire-Shield® e²XP Tile Backer (Type X) has special additives in the core to enhance its fire-resistive properties. Contains no asbestos.

GREENGUARD CERTIFIED

e²XP Tile Backer is GREENGUARD Children & SchoolsSM Certified for indoor air quality.



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Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

TECHNICAL DATA

PHYSICAL PROPERTIES	1/2" e ² XP Tile Backer Regular	5/8" e ² XP Tile Backer Fire-Shield - Type X
Thickness, nominal	1/2" (12.7mm)	5/8" (15.9mm)
Width, nominal	4' (1219mm)	4' (1219mm)
Length, standard	8'	8'
Weight, lbs./sq.ft., nominal	2	2.5
Edges	Square	Square
Bending Radius	12'	16'
Water Absorption (per ASTM C 473)	< 5%	< 5%
Mold Resistance (per ASTM D 3273)	10	10
Surface Burning Characteristics (per ASTM E 84)	Flame Spread: 0 Smoke Developed: 0	Flame Spread: 0 Smoke Developed: 0

APPLICABLE STANDARDS AND REFERENCES

ASTM C 1178
ASTM C 840
ASTM D 3273
ASTM D 6329
ASTM C 473
Gypsum Association GA-216
Gypsum Association GA-214
Tile Council of North America, <i>Handbook For Ceramic Tile Installation</i>

FIRE RESISTANCE RATINGS

Fire resistance ratings represent the results of tests on assemblies made up of specific materials in specific configuration. When selecting construction designs to meet certain fire resistance requirements, caution must be used to ensure that each component of the assembly is the one specified in the test. Further, precaution should be taken that assembly procedures are in accordance with those of the tested assembly. (For copies of specific tests, call 1-800-NATIONAL. For fire safety information, see www.nationalgypsum.com)

UL CORE DESIGNATION

5/8" e²XP Tile Backer: FSW-6

MOLD AND MILDEW RESISTANCE

e²XP Tile Backer was designed to provide extra protection against mold and mildew compared to standard gypsum board products. When tested by an independent lab per ASTM D 3273 ("Standard Test Method for Resistance to Growth of Mold on the

Surface of Interior Coatings in an Environmental Chamber"), e²XP Tile Backer achieved a score of 10, the best possible score for this test. No material can be considered "mold-proof," nor is it certain that any material will resist mold or mildew indefinitely. When used in conjunction with good design, handling and construction practices, e²XP Tile Backer can provide increased mold resistance versus standard gypsum board products. As with any building material, avoiding water exposure during handling, storage and installation, and after installation is complete, is the best way to avoid the formation of mold or mildew.

INSTALLATION

RECOMMENDATIONS

Install e²XP Tile Backer in accordance with local building codes, manufacturer's recommendations and industry standards.

Do not embed e²XP Tile Backer into mortar bed in showers.

Install with gray side facing away from the framing, apply tile/finishes to the gray side.

Score/cut from the gray side using a standard utility knife. Cut outs are made easily with a utility knife or saw. Panel joints must be tight. Gaps and inside corners shall be filled with flexible sealant. Drive fasteners flush with the panel surface; do not countersink.

Walls: Install panels either horizontally or vertically to framing using fasteners every 8" o.c. When applying tile, use minimum 20 gauge steel or wood framing spaced 16" o.c. without blocking, or 24" o.c. with blocking at all joints for 1/2", spaced 24" o.c. for 5/8".

Ceilings: When used as a tile substrate for ceilings, apply panels perpendicular to the supports spaced a maximum of 12" o.c. for 1/2" and 16" o.c. for 5/8". Space fasteners 8" o.c. along all support members.

Countertops: Apply e²XP Tile Backer over a minimum 23/32" exterior grade plywood sub-base using a bed of thin set mortar applied with a 1/4" x 1/4" notched trowel between the plywood and e²XP Tile Backer. Fasten using 1-1/4" corrosion resistant bugle head screws spaced no more than 8" o.c. in both directions.

Penetrations: Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.

FINISHING

TILE APPLICATION OVER e²XP TILE BACKER

Tile can be set using either thin-set mortar (ANSI A118.1 or A118.4) or organic adhesive (ANSI A136.1). Alkali resistant fiberglass tape shall be imbedded with the tile setting material prior to tile installation. Install using manufacturer's instructions. Allow tile setting material to cure for a day prior to application of grout.

NON-TILE APPLICATION OVER e²XP TILE BACKER

Dry Non-Tile Applications: Outside the wet areas of showers and baths, tape joints with drywall tape and

embed with setting tape joint compound such as ProForm® BRAND Quick Set Setting Compound. Skim the entire surface with a joint compound to create a smooth surface for finishing. Setting compound or all purpose ready mix joint compound may be used for skim coat.

High Humid Area Applications:

For areas of higher than normal humidity such as swimming pools, process facilities, etc., finish the walls with materials suitable for humid environments such as direct applied finish systems. Caulk all transitions and abutments to dissimilar materials with a flexible caulk. All penetrations, including outlets and switches, shall be appropriately sealed.

SAFETY

The following standard work practices are recommended: Installers should wear long pants and a long-sleeved loose fitting shirt. Protective gloves and special eye protection (goggles or safety glasses with side shields) should be used. A dust mask should be worn when sanding, and additional breathing protection may be needed in extremely dusty conditions. Do not use a power saw to cut this product.

Caution: Because this product contains fiberglass, dust and glass fibers may be released during normal handling, which could result in eye or skin irritation or cause difficulty in breathing. Whenever possible, avoid contact with the skin and eyes and avoid breathing dust or fibers that may be released during installation. Before use, consult the MSDS for this product, available at, nationalgypsum.com.

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