

INSTALLATIONS OVER GYP-CRETE® 2000 GYPSUM CEMENT FLOOR UNDERLAYMENTS

Gypsum cement floor underlayments and radiant floor heating systems are being specified in multi-level condominiums, hotels and high-rise office buildings in conjunction with ceramic tile and dimensional stone installations.

Past technology did not permit tiles to be installed directly to the surface of a gypsum substrate with Portland cement-based, dry set mortars. Advances in gypsum cement floor underlayments, including higher surface hardness and compressive strength, combined with elastomeric membrane technology, allows Custom Building Products to now recommend tile installations directly over Gyp-Crete 2000, provided the compressive strength is 2000 psi or greater. However, these new installation methods require special surface preparation in conjunction with applications utilizing Custom's RedGard® Waterproofing and Crack Prevention Membrane.

RedGard Waterproofing and Crack Prevention Membrane will produce a tenacious bond and provide anti-fracture protection for the tile installation. Tile and dimensional stone can be installed over Gyp-Crete 2000 in areas designated as interior, dry, and above grade floors for residential and light commercial traffic. Once the Gyp-Crete 2000 is properly installed and cured in accordance with the manufacturer's directions, preparation for the installation of ceramic tile may begin.

SURFACE PREPARATION STEPS ARE AS FOLLOWS:

STEP 1.

The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings.

STEP 2.

All surfaces to be tiled must be structurally sound and subject to deflection not to exceed 1/360th of the span (for natural stone 1/720). Surfaces shall be dry and free of all grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, old adhesive residue, gypsum-based patching compounds and any other foreign matter.

STEP 3.

All gypsum cement underlayment surfaces to receive RedGard must be primed with either properly diluted Maxxon® Overspray or a primer coat consisting of: one (1) part RedGard diluted with four (4) parts clean, cool water. Mix in a clean bucket at low speeds until lump free solution is obtained. The primer can be brushed, rolled or sprayed to achieve an even coat. Apply primer coat to the floor at a rate of 250-300 sq. ft./gallon (23 – 28 M²/3.78 L). Drying time will depend on site conditions but is normally less than one hour. On extremely porous surfaces, two applications may be required.

STEP 4.

RedGard can then be applied to the primed gypsum cement underlayment. Refer to individual product data sheets or packaging directions for application instructions. Expansion joints shall be installed in accordance with local building codes. See EJ 171 in T.C.A. Handbook for detailed specifications. Expansion joints, control joints and cold joints shall never be bridged with setting material.

STEP 5.

Install tile with Custom Building Products MegaFlex® or MegaLite® Crack Prevention Mortars.

STEP 6.

Grout with Custom Building Products' Polyblend® Grout.

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Technical Bulletin

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