
INSTALLATION OVER HACKER INDUSTRIES FORM-FILL® 3310 AND GYP-SPAN® RADIANT UNDERLAYMENTS

Gypsum cement floor underlayments 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 tile 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 (2000 psi or greater), combined with elastomeric membrane technology, allows Custom® to now recommend tile installations directly over Form-Fill® 3310 and Gyp-Span® Radiant Underlayments. However, these new installation methods require special surface preparation in conjunction with applications utilizing Custom's RedGard® Waterproofing and Anti-Fracture Membrane.

RedGard will produce a tenacious bond and provide anti-fracture protection for the tile installation. Tile and dimensional stone can be installed over Form-Fill 3310 and Gyp-Span Radiant Underlayments in areas designated as interior, dry and above grade floors for residential and light commercial traffic. Once the Hacker Industry Underlayment greater than 2000 psi is properly installed and cured in accordance with the manufacturer's directions, preparation for the installation of ceramic tile may begin.

SURFACE PREPARATION STEPS:

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 L/360 of the span. When natural stone products are to be installed, contact Technical Services for deflection recommendations.

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 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 the product data sheet or packaging directions for application instructions.

STEP 5

Install tile with MasterBlend™ Standard Thin-Set Mortar mixed with CustomFlex® Ultra-Strength Thin-Set Additive.

STEP 6

Grout with Polyblend® Grout.

