



Technical Bulletin # 104-B

RE: Pro-Red 963 Anti-Fracture membrane on GYP-CRETE[®] 2000 Gypsum Underlayment
DATE: January 7, 2005

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 (2000 psi or greater), combined with elastomeric membrane technology, allows C-Cure to now recommend tile installations directly over Gyp-Crete 2000. However, these new installation methods require special surface preparation in conjunction with applications utilizing C-Cure's ProRed 963 Waterproof and Anti-Fracture Membrane.

ProRed 963 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. 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 ProRed 963 must be primed with either properly diluted Maxxon[®] Overspray or a primer coat consisting of: one (1) part C-Cure's ProRed 963 Waterproof and Antifracture membrane 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. 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.

ProRed 963 can then be applied to the primed gypsum cement underlayment. Refer to ProRed 963 Waterproof and Anti-Fracture Membrane data sheet 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.

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