



## Technical Bulletin # 126

**RE: Installation over Hacker Industries Firm Fill® 3310 & Gyp-Span® Radiant Underlayments**  
**DATE REVISED: January 07, 2005**

Following are C-Cure's installation instructions for installing Pro-Red 963 Waterproofing and Anti-Fracture Membrane to Hacker Industries Firm Fill 3310 & Gyp-Span Radiant Underlayments.

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

Surfaces shall be dry and free of all paint, paint overspray, grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, old adhesive residue, gypsum-based patching compounds and any other foreign matter.

STEP 3 - Firm Fill 3310 & Gyp-Span surfaces to receive Pro-Red must be primed with a primer coat consisting of: one (1) part Pro-Red 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 are required.

STEP 4 - Once the primer coat is dry, undiluted Pro-Red can be applied. Please refer to Pro-Red 963 product data sheet or package directions for complete application instructions. Two coats of undiluted Pro-Red are recommended. Expansion joints shall be installed/placed in accordance with EJ 171 in the T.C.A. Handbook. Expansion joints, control joints and cold joints shall not be bridged with setting mortar or tile.

STEP 5 - Install tile with ThinSet 911 mixed with undiluted Porcelain, Stone & Tile 948 High Strength Acrylic admixture.

STEP 6 - Grout with MP 923/924 or CurePerfect 930 Latex Modified Grout.

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