

## INSTALLATION INSTRUCTIONS FOR PRO-RED MOISTURE BARRIER SYSTEM

PRO-RED MOISTURE BARRIER SYSTEM was developed for slab-on-grade installations of resilient and wood flooring when a moisture barrier is required. Proper installation will reduce moisture transmission below 3 lbs. (1.36 Kg). This easy to apply system consists of PRO-RED WATERPROOFING MEMBRANE used as the moisture barrier and PROFINISH 989 SKIM COAT, PATCHING & FINISHING CEMENT UNDERLAYMENT as the cement top coat.

### AREA OF USE

- ▶ Slab-on-grade concrete

### USE UNDER THESE FLOOR COVERINGS

- ▶ Laminated flooring
- ▶ VCT
- ▶ Sheet vinyl flooring
- ▶ Carpet
- ▶ Wood, parquet

### LIMITATIONS

- ▶ Do not apply to slab when slab temperature is below 55° F (13° C) minimum. Maintain the minimum slab temperature 72 hours after installation.
- ▶ Do not apply to overly dampened surfaces or surfaces subject to hydrostatic pressure.
- ▶ Do not use to fill existing expansion, control, construction, cold or saw-cut joints.
- ▶ Do not use as a wear surface.

### SURFACE PREPARATION

#### General Site Conditions

The building should be closed up and acclimated with a minimum slab temperature of 55° F (13° C). In cases where the moisture transmission is greater than 12 lbs. (5.4 Kg) based on ASTM F1869-98 Calcium Chloride testing method, contact our technical service department for information concerning these extreme conditions.

#### Surface Preparation

The slab must be fully cured (28 days minimum), firm, clean and free of all foreign matter that may prevent adhesion of the membrane to the surface including, curing compounds, sealers, adhesive residues, paint, oil, grease and waxes. Thorough scraping may be adequate, but it is recommended that a suitable mechanical method, such as scarifying or shot blasting be used to remove incompatible or stubborn materials. Shot blasting may also be required on highly polished surfaces. Ensure that all loose debris is removed. Existing surfaces should be smooth and level and defects, including cracks up to 1/2" (13 mm) repaired with PROFINISH or other cement-based patching material authorized by C-Cure prior to application.

### MOISTURE BARRIER SYSTEM APPLICATION

#### Primer Coat

Dilute one (1) part PRO-RED WATERPROOFING MEMBRANE with (4) parts clean, cool water in a clean bucket mixed at low speed. Apply primer coat to the floor with a new, clean, stiff bristle push broom or commercial grade string mop and allow to dry. Drying time will depend on site conditions but is normally less than one hour.

#### Finish Coat

Apply PRO-RED undiluted using a 3/16" x 5/32" (5 mm x 4 mm) V-notch trowel held at a 45° angle. While troweled membrane is still fresh, fill a 1/2" to 3/4" (13 mm - 19 mm) rough textured, synthetic roller with undiluted membrane, remove excess and roll out and flatten ridges. Apply a continuous, even film with overlapping strokes. Alternatively, an airless sprayer can be used to apply the finish coat. The sprayer should produce between 1900 to 2300 psi, with a flow rate of 1.0 to 1.5 gpm and have a tip orifice size of .025 to .029. Apply a continuous film with overlapping spray. Periodically check film thickness with a wet film gauge. Clean all spray equipment immediately after use. Initial membrane appearance is pink when wet and dries to a dark red color. After the undiluted coat has turned red with no blushing or light pink showing, about 2 to 4 hours, visually inspect the film for integrity and fill any voids or pinholes. If repairs are made, allow repaired areas to cure solid red before beginning encapsulation. The dried coating needs to be a minimum of 47 mils thick or 93 mils when wet and should not exceed 125 mils in thickness. Depending on ambient conditions, membrane can take up to 12 hours to fully cure by turning solid red with no pink showing.

#### Encapsulation

PROFINISH 989 SKIM COAT, PATCHING & FINISHING CEMENT:

Combine 15 lbs. (6.8 kg) of powder to 3-1/2 quarts (3.3 L) water. Slowly add powder to water while mixing with a low speed drill (less than 300 RPM) to a lump-free consistency. Using a smooth edged trowel apply PROFINISH a minimum of 1/8" (3 mm) thick.

#### COVERAGE

##### Primer Coat

Diluted PRO-RED WATERPROOFING MEMBRANE at 1 part membrane to 4 parts water is 400 to 500 sq. ft. per gallon (37 to 46 m<sup>2</sup> per 3.78 L). Therefore one gallon (3.78 L) of undiluted Pro-Red will make 5 gallons (18.9 L) of primer.

##### Finish Coat

Undiluted PRO-RED WATERPROOFING & ANTI-FRACTURE MEMBRANE:

75 - 200 sq. ft. per 5 gallons (9.3 m<sup>2</sup> per 19 L) at 40 mils wet film thickness, 20 mils dry.

#### Encapsulation

PROFINISH 989 SKIM COAT, PATCHING & FINISHING CEMENT:

45 sq. ft. per 15 lb. box (4.2 m<sup>2</sup> per 6.8 kg) at 1/8" (3 mm) thickness.

#### CURING

PRO-RED WATERPROOFING & ANTI-FRACTURE MEMBRANE: Normal drying time is between 2 - 4 hours. Depending on ambient conditions, drying time can take up to 12 hours.

PROFINISH 989 SKIM COAT, PATCHING & FINISHING CEMENT:

Allow to cure a minimum of 45 - 60 minutes prior to the installation of most floor coverings. Flooring requiring special adhesives can require up to 16 hours drying time. For optimal assurance, run a calcium chloride test(s) for moisture transmission before applying vinyl or wood flooring.

#### CLEAN-UP

Clean with water before material dries.

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