



Pro-Red® Waterproofing Membrane 963

Elastomeric Waterproofing and Crack Prevention Membrane

PRODUCT DESCRIPTION

PRO-RED® WATERPROOFING MEMBRANE 963 is a ready-to-use, elastomeric, waterproofing and crack prevention membrane for all interior or exterior commercial and residential tile and stone installations. Easily applied with roller, trowel or sprayer producing a continuous moisture barrier with outstanding adhesion. Reduces crack transmission in ceramic tile or stone floors. Bonds directly to metal drains, PVC, stainless steel and ABS drain assemblies. Meets ANSI A118.10 for waterproofing membranes and ANSI A118.12 for crack isolation membranes. Meets Uniform Plumbing Code specifications for use as a shower pan liner. Listed with IAPMO R & T, File #4244 UPC®, ICC-ES ESR-1413. Can also be used as a slab-on-grade moisture barrier under resilient flooring.

► FEATURES/BENEFITS

- Convenient — Ready to use
- Apply by roller, trowel or sprayer
- Meets IAPMO specifications for use as a shower pan liner
- Elastomeric — Protects tile from cracking due to minor surface movement

► AREA OF USE

- Concrete
- Cement backerboards, C-Cure® Board 990
- Exterior grade plywood (interior, dry areas for crack isolation only)
- Exterior decks
- Gypsum drywall

► LIMITATIONS

Do not apply to surfaces that may go below 40°F (4°C) during the first 72 hours after application, over wet surfaces or surfaces subject to hydrostatic pressure. Do not use to bridge or cover over existing expansion, control, construction, cold or saw-cut joints. Not for use as an adhesive. Do not use as a wear surface. Membrane must be covered with tile or other protective surface.

► APPLICABLE STANDARDS

Meets ANSI A118.10 for load bearing, bonded, waterproof membranes for thin-set ceramic tile and dimensional stone installations. Meets ANSI A118.12 for crack isolation membranes. Meets Uniform Plumbing Code specifications for use as a shower pan liner. Listed with IAPMO R & T, File #4244 UPC®, ICC-ESR-1413. Color — Red. Texture — Viscous liquid.

► PACKAGING

5 gallon (18.9 L) and 2 gallon (7.57 L) pails.

INSTALLATION

► PREPARATORY WORK

All exterior and wet areas are to have proper sloping to drains. All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent a good bond. Newly prepared concrete must be cured 28 days, finished with a steel trowel and have a fine broom finish. Existing surfaces

should be scarified, level and all defects repaired. Cracks in excess of 1/8" (3 mm) should be treated as expansion joints.

► APPLICATION

As a Crack Prevention Membrane

Force PRO-RED WATERPROOFING MEMBRANE 963 into cracks with the flat side of the trowel, roller or brush. Then, using a 3/16" x 1/4" (5 x 6 mm) V-notch trowel or 3/8" (9.5 mm) rough textured roller, apply additional material onto the substrate. If using a trowel, use the flat side of the trowel and flatten the ridges to form a continuous, even coat of material. Membrane should extend beyond both sides of the crack a minimum of the diagonal measurement of the tile. Gaps between plywood sheets and where they meet walls should also be pre-filled with membrane. For continuous crack isolation cover the entire substrate with material. Material should be applied at least 30 mils wet film thickness.

As a Waterproof Membrane

All cracks in concrete up to 1/8" (3 mm) should be pre-filled with membrane prior to application. Dampen all porous surfaces. Use a 3/4" (19 mm) rough textured synthetic roller, or a 3/16" x 1/4" (5 x 6 mm) V-notch trowel. Heavily pre-coat corners and where floors and walls meet extending it 6" (15 cm) on either side. For exterior change of plane embed 6" (15 cm) wide fiberglass mesh into the membrane in corners and where floors and walls meet. ProRed that has been applied in accordance with the above instructions meets all the requirements of ANSI 118.10 without fabric reinforcement. For extra protection, embed 6" (15 cm) wide fiberglass mesh into the membrane for changes of plane and gaps 1/8" (3 mm) or greater. If using a trowel, spread the material with trowel held at a 45° angle then flatten the ridges. If using a roller, apply a continuous, even film with overlapping strokes. Alternatively, an airless sprayer can be used. 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. Initial membrane appearance is pink when wet and dries to a dark red color. After the first coat has turned red with no blushing or light pink showing, about 1 to 1 1/2 hours, visually inspect the film for integrity and fill any voids or pinholes with additional material and apply a second coat at right angles to the first. Periodically check film thickness with a wet film gauge. The combined dried coating needs to be a minimum of 47 mils thick or 93 mils when wet and should not exceed 125 mils wet film thickness.

► INTERIOR CHANGE OF PLANE — COMMERCIAL INSTALLATIONS

Many commercial waterproofing installations require reinforcing of interior change of plane. Contact Technical Support prior to

beginning any commercial installation for review and recommendations. These installations include but are not limited to the following:

- All above grade pools, fountains and other poured in place or free standing structures that will be required to hold water permanently.
- All commercial floors that will be subject to continuous water exposure (i.e. commercial kitchens, wash downs, periodic flooding, etc.)
- All above grade slabs that are either pre-stressed or post tensioned.
- All perimeters where the floor abuts a curtain or shear wall.
- Around the perimeter of all through floor penetrations (i.e. drain pipes, electrical conduit, etc.)

► EXPANSION JOINTS

Do not bridge joints which are designed to experience movement. Carry these types of joints through the tile work. Clean the joint and install open or closed cell backer rod to the proper depth as outlined in EJ 171 in the TCA Handbook. Next, compress a sealant as specified by the architect into the joint, coating the sides and leaving it flush with the surface. After the sealant is dry, place bond breaker tape over joint. Apply a minimum 3/64" (1.2 mm) of PRO-RED WATERPROOFING MEMBRANE 963 over the joint and substrate following the instructions detailed in APPLICATION. Install the tile work onto the membrane but do not bridge the joint. After the tile work is set properly, fill the joint with any specified color sealant, following the architect's and manufacturer's instructions.

► DRAINS

Drains should have a clamping ring with open weep holes for thin-set application. Apply membrane to the bottom flange. Drain should be fully supported without movement and even with plane of substrate. Apply membrane as outlined under APPLICATION. Embed 12" x 12" (30 x 30 cm) fiberglass mesh into membrane making sure it does not obstruct the drainage hole. Then apply an additional coat of membrane and smooth. After curing, clamp upper flange onto membrane and tighten. Caulk around flange where membrane and upper flange make contact with a silicone caulk. A toilet flange can be handled in much the same manner. (See "Drain Cross Section" on back page.)

► PROTECTION

If tile is not going to be set immediately after curing, PRO-RED WATERPROOFING MEMBRANE 963 should be protected from rain, direct sunlight and inclement weather for 72 hours after application. If delays longer than 72 hours are expected, cover with felt paper. Care should be taken to prevent membrane from becoming soiled or punctured during and after application.

► TILE INSTALLATION

Install tile or stone with a C-Cure® polymer-modified mortar meeting ANSI A118.4 or A118.11 standards.

► CURING

The product is dry when it turns solid red with no pink showing, normally 1 to 1 1/2 hours. Depending on ambient conditions, drying time can take up to 12 hours. The application area can be flood tested when fully cured. This can be as short as 24 hours after the second coat of Pro-Red is applied if the temperature is greater than 70° F (21° C) and the relative humidity is low (RH≤50%). Colder temperatures and/or higher relative humidity may require longer cure times.

► CLEAN-UP

Clean tools and hands with water before material dries. Clean all spray equipment immediately after use.

► COVERAGE

As a Crack Prevention Membrane

2 gallon (7.57 L) pail: 220 sq. ft. (20.4 m²) at 30 mil thickness when wet
5 gallon (18.9 L) pail: 550 sq. ft. (51 m²) at 30 mil thickness when wet

As a Waterproof Membrane

2 gallon (7.57 L) pail: 70 - 80 sq. ft. (6.5 - 7.4 m²) at 93 mil thickness when wet, 47 mils dry
5 gallon (18.9 L) pail: 175 - 200 sq. ft. (16.2 - 18.5 m²) at 93 mil thickness when wet, 47 mils dry

► STORAGE

Keep from freezing.

► WARRANTY

PRO-RED WATERPROOFING MEMBRANE 963 is included in C-Cure's Five and Ten Year System Warranties. For terms and conditions see Warranty Documents #WRTDS and #CCW10.

GUARANTEE

The recommendations, suggestions, statements and technical data are based on the best knowledge available to C-Cure and are given for informational purposes ONLY and without any responsibility for their use.

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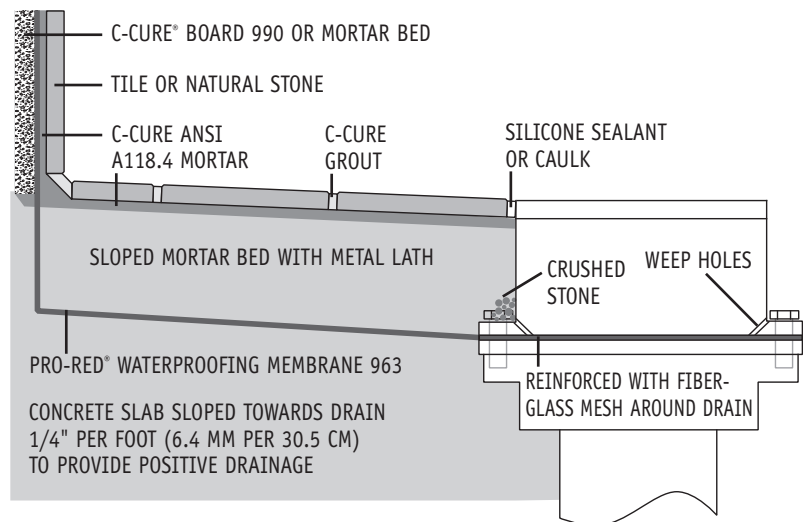
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PRO-RED WATERPROOFING MEMBRANE 963 TECHNICAL DATA

TEST	TYPICAL VALUES
A. Pot Life @ 70°F (21°C)	Indefinite
B. Initial Set, ASTM C191 @ 70°F (21°C)	1 - 1 1/2 Hours
C. Drying Time Before Tile Installation	1 - 1 1/2 Hours or up to 12 Hours
D. Fungus and Micro-Organism Resistance ANSI 118.10 Sect # 4.2	Passes
E. Seam Strength width ANSI 118.10 Sect # 4.2	16 lbs./2 inch width (7.3 kg/5 cm)
F. Breaking Strength ANSI 118.10 Sect # 4.3	484 psi (34.0 kg/cm ²)
G. Dimensional Stability ANSI A118.10 Sect # 4.4	0.05%
H. Waterproofness ANSI 118.10 Sect # 4.5	Passes
I. Shear Strength 12-Day dry cure 100-Day water immersion	ANSI 118.10 Sect # 5.6 ANSI 118.10 Sect # 5.7 267 psi (18.8 kg/cm ²) 89 psi (6.3 kg/cm ²)
J. Elongation ASTM D-638	21-Day dry cure 7-Day dry cure/21-Day wet cure 562% 657%
K. Hydrostatic pressure & alkali resistance IAPMO/Uniform Plumbing Code 4244	Passes
L. Waterproofness IAPMO/Uniform Plumbing Code 4244	Passes
M. FHA 4900-1-615-5, Sections C & D	Compliant
N. Permeance Rating	0.06
O. Water Vapor Transmission	0.02 (grains/hr-sq ft)
N. Conforms to Wisconsin's performance requirements for "safing material" as required by s. Comm 84.30 (6)(f) of the Wisconsin Administrative Code.	
O. Safety—CAUTION: EYE AND SKIN IRRITANT. Avoid contact with eyes. Do not take internally. FIRST AID: In case of contact, flush eyes with large amounts of water for at least 15 minutes. Wash affected skin area with soap and water. If irritation persists, see a physician. If ingested, contact a physician immediately. For additional information refer to the Material Safety Data Sheet (MSDS).	
KEEP OUT OF REACH OF CHILDREN.	
P. Storage Life—One year if kept in sealed containers at temperatures of 40° to 90° F (4.4° - 32° C).	

DRAIN CROSS SECTION



Members of National Tile Contractors Association,
Materials & Methods Standards Association, Ceramic Tile Distributors Association.

NOTICE: The information in this bulletin is presented in good faith, but no warranty, express or implied, is given nor is freedom from any patent. In as much as any assistance furnished by C-Cure with reference to the safe use and disposal of its products is provided without charge, C-Cure assumes no obligation or liability therefore, except to the extent that any such assistance shall be given in good faith.

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