RedGard® Waterproofing and Crack Prevention Membrane

1 Product Name
   RedGard® Waterproofing and Crack Prevention Membrane

2 Manufacturer
   Custom Building Products
   Technical Services
   10400 Pioneer Boulevard, Unit 3
   Santa Fe Springs, CA 90670
   Customer Support: 800-272-8786
   Technical Services: 800-282-8786
   Fax: 800- 200-7765
   Email: contactus@cbpmail.net
   custombuildingproducts.com

3 Product Description
   A ready-to-use elastomeric waterproofing membrane for both commercial and residential tile and stone application. Suited for interior and exterior substrates, RedGard® creates a continuous waterproof membrane barrier with outstanding adhesion and reduces crack transmission in tile and stone floors. It bonds directly to clean metal drains, PVC, stainless steel and ABS drain assemblies and can be used as a slab-on-grade moisture vapor barrier under all types of floor coverings.

   Key Features
   - Ready to use - Roll it on
   - Quick dry formula
   - Listed with IAPMO for use as a shower pan liner

   Suitable Substrates
   - Concrete, cement mortar, masonry
   - Cement Backerboard
   - Exterior Plywood and OSB (interior, dry areas only)
   - Exterior Decks - Contact Technical Services
   - Post-Tension Concrete - Contact Technical Services
   - Lightweight Concrete (min. 2000 psi compressive strength)
   - Gypsum-Based cement topping (min. 2000 psi compressive strength)
   - Existing ceramic tile and resilient flooring
   - Floor heating systems - contact Technical Services

   Composition of Product
   RedGard® is a liquid-applied elastomeric waterproofing material that cures to form a monolithic membrane.

   Benefits of Product in the Installation
   - Easy to use and can be applied by roller, trowel or airless sprayer
   - Rated for extra heavy duty service
   - Reduces curing time with quick-dry formula
   - Isolates cracks to 1/8” (3 mm)
   - Suitable for waterproofing pools, spas and water features
   - Meets Uniform Plumbing Code specifications for use as a shower pan liner

   Limitations to the Product
   - Do not apply to surfaces that may drop below 40°F (4°C) within 72 hours of application.
   - Do not apply on existing concrete slabs on-ground with relative humidity levels over 85%. Contact Technical Services for other conditions for additional information.
   - Do not apply over wet surfaces or surfaces subject to hydrostatic pressure.
   - Do not use to relocate tile joints over saw cuts/control joints in concrete slabs instead use Crack Buster® Pro Membrane. Contact Technical Services for detailed instructions to waterproof
   - Do not use as an adhesive.
   - Do not use as a wear surface; the membrane must be covered with tile or other permanent flooring.
   - Do not use solvents in conjunction with the membrane

   Packaging
   - 1 gallon (3.78 L) pail
   - 3.5 gallon (13.2 L) pail

4 Technical Data
   Applicable Standards
   - ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester

   Tile Council of North America (TCNA) TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171, F125 & F125A

Published Date: 10/29/2020
RedGard® Waterproofing and Crack Prevention Membrane

Approvals


Test Method

14 Cycles; Pass at 30

Typical Results

0.05%

Instructions

484 psi (34

> 1000 psi

0.35 perms

89 psi (6.3 kg/

ASTM F1869 for more information on Vapor Transmission Testing.

vapor transmission is up to 12 lbs. per 1000 sq. ft. per day. Refer to ASTM F1869 for more information on Vapor Transmission Testing.

Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product may contribute to LEED® certification.

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Movement Joint Placement
Do not bridge joints designed to experience movement. Carry these types of joints through the tile work. Clean the joint and install an open or closed cell-backer rod to the proper depth, as outlined in the Tile Council Handbook, EJ171. Next compress sealant into the joint, coating the sides and leaving the sealant flush with the surface. When the sealant is dry, place bond-breaker tape over the joint. Apply a minimum 3/64" (1.2 mm) of RedGard® over the joint and the substrate, following the instructions provided previously. Install the tile work onto the membrane, but do not bridge the joint. After the tile work is properly set, follow the architect's and manufacturer's instructions to fill the joint with a specified color sealant.

Application of Product

SHOWER RECEPTORS INSTALLATION
Mortar Bed over Framed Structures – B414
Cement Backerboard Walls – B415
Surface Bonded Waterproofing – B421

Download the illustrated installation details by clicking on the link above or go to CustomBuildingProducts.com/TSD, select “Tile” as the installation type and select the appropriate illustrated TCNA detail by number (example: B414).

RedGard at Drains

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

RedGard® as Crack Prevention Membrane

Force RedGard® into cracks with the flat side of the trowel, roller or brush. Using a 3/16"-1/4" (5-6 mm) V-notch trowel or 3/8" (9.5 mm) rough textured roller. Use the flat side of the trowel and flatten the ridges to form a continuous, even coat of material. The membrane should extend a minimum of the diagonal measurement of the tile beyond both sides of the crack. Gaps between plywood sheets and where floors meet walls must also be prefilled. For continuous crack isolation, cover the entire substrate with RedGard® applied at a rate of 100 sq. ft. per gallon. To meet the requirements of ANSI A118.12, apply two coats of RedGard at a rate of 50 sq. ft. per gallon each coat.

RedGard® as General Waterproof Membrane (ANSI 118.10)

Cracks to 1/8" (3 mm) should be prefilled before beginning the waterproofing application. Lightly dampen all porous surfaces. Use a 3/4" (19 mm) rough surfaced synthetic roller or a 3/16"-1/4" (5-6 mm) V-notch trowel and heavily precoat the corners and the intersections where the floors and walls meet, extending 6" (15 cm) on either side. For extra protection, embed a 6" (15 cm) wide fiberglass mesh into the membrane for changes of plane and for gaps 1/8" (3 mm) or greater. Apply RedGard at a rate or 110 sq ft per gallon each coat. If using a trowel, spread the material with the trowel held at a 45° angle, and then flattens the ridges. If using a roller, apply a continuous, even film with overlapping strokes. An airless sprayer may be used for the waterproofing application. The sprayer must produce between 1900 - 2300 psi, with a flow rate of 1.0 - 1.5 GPM and must have a tip orifice size of 0.025 - 0.029. Apply a continuous film with overlapping spray. The membrane appearance is pink when wet and dries to a dark red color. It typically takes 1-1.5 hours to turn completely red. After the first coat turns red, inspect the film for integrity and fill any voids or pinholes with additional material. Apply a second coat at right angles to the first coat. To meet the requirements of IAPMO, Two coats should be applied at a rate of 80 sq. ft. per gallon each coat. In all cases the wetfilm thickness should not exceed 125 mils.

Curing of Product

RedGard® is dry when it turns solid red, with no visible pink color. Typically, drying time is 1-1.5 hours; depending on ambient conditions, drying time can be as much as 12 hours. After the second coat is applied and both coats are fully cured, the application area can be flood tested.

Protection

If tile or stone will not be set immediately after curing, protect the membrane from rain, inclement weather and potential construction traffic damage. If delays longer than 72 hours are expected, cover and protect the membrane from extended direct sunlight (UV exposure). Care should be taken to prevent the application from becoming soiled or punctured during and after application.

Tile and Stone Installation

Install tile or stone with a Custom® Building Products polymer-modified mortar that meets ANSI A118.4 or A118.15 standards.

Cleaning of equipment

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

Health Precautions

Wear impervious gloves and eye protection while using this product. Avoid contact with eyes or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, rinse cautiously with water for several minutes, remove contact lenses if easy to do: continue rinsing. Immediately seek medical advice if symptoms are significant or persist. Do not take internally. KEEP OUT OF REACH OF CHILDREN.

Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.
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6 Availability & Cost

<table>
<thead>
<tr>
<th>Location</th>
<th>Item Code</th>
<th>Size</th>
<th>Color</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>LQWAF1</td>
<td>1 gallon (3.78 L)</td>
<td>Pink</td>
<td>Pail</td>
</tr>
<tr>
<td>USA</td>
<td>LQWAF3</td>
<td>3.5 gallon (13.2 L)</td>
<td>Pink</td>
<td>Pail</td>
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<td>Canada</td>
<td>CLLQWAF1</td>
<td>1 gallon (3.78 L)</td>
<td>Pink</td>
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<tr>
<td>Canada</td>
<td>CLLQWAF3</td>
<td>3.5 gallon (13.2 L)</td>
<td>Pink</td>
<td>Pail</td>
</tr>
</tbody>
</table>

7 Product Warranty

Obtain the applicable LIMITED PRODUCT WARRANTY at www.custombuildingproducts.com/product-warranty or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured under the authority of Custom Building Products, Inc. © 2017 Quikrete International, Inc.

When RedGard® Waterproofing and Crack Prevention Membrane is used as a part of a qualifying full installation system of CUSTOM products, the installation can qualify for up to a lifetime system warranty. CUSTOM will repair and/or replace, at its discretion, the affected area of the system. For more information, find details and limitations to this warranty at custombuildingproducts.com.

8 Product Maintenance

Properly installed product requires no special maintenance. Do not use as a wear surface.

9 Technical Services Information

For technical assistance, contact Custom technical services at 800-272-8786 or visit custombuildingproducts.com.

10 Filing System

Additional product information is available from the manufacturer upon request.

Related Products

- Waterproofing and Anti-Fracture Membrane Mesh
- RedGard® SpeedCoat® Waterproofing Membrane
## Coverage

<table>
<thead>
<tr>
<th>Size</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RedGard as Crack Prevention Membrane:</strong></td>
<td></td>
</tr>
<tr>
<td>1 Gallon (3.78 L)</td>
<td>100 sq. ft (9.3 M²)</td>
</tr>
<tr>
<td>3.5 Gallon (13.2 L)</td>
<td>350 sq. ft (32.5 M²)</td>
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<tr>
<td><strong>RedGard as Crack Prevention Membrane meeting ANSI A118.12:</strong></td>
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</tr>
<tr>
<td>1 Gallon (3.78 L)</td>
<td>25 sq. ft (2.3 M²)</td>
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<tr>
<td>3.5 Gallon (13.2 L)</td>
<td>88 sq. ft (8.2 M²)</td>
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<tr>
<td><strong>RedGard as Waterproof Membrane:</strong></td>
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<tr>
<td>1 Gallon (3.78 L)</td>
<td>55 sq. ft (5.1 M²)</td>
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<tr>
<td>3.5 Gallon (13.2 L)</td>
<td>192 sq. ft (17.8 M²)</td>
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<td><strong>RedGard as IAPMO Pan Liner meeting ANSI A118.10:</strong></td>
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<tr>
<td>1 Gallon (3.78 L)</td>
<td>40 sq. ft (3.7 M²)</td>
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<tr>
<td>3.5 Gallon (13.2 L)</td>
<td>140 sq. ft (13 M²)</td>
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</tbody>
</table>

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions.