

# RedGard® SpeedCoat® Waterproofing Membrane

## 1 Product Name

RedGard® SpeedCoat® Waterproofing 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](mailto:contactus@cbpmail.net)  
[custombuildingproducts.com](http://custombuildingproducts.com)

## 3 Product Description

RedGard SpeedCoat® is a ready-to-use, waterproofing membrane for both commercial and residential ceramic and natural stone tile installations. Suited for interior substrates, RedGard® SpeedCoat creates a continuous waterproofing barrier with outstanding adhesion. It bonds directly to clean metal, PVC, stainless steel and ABS drain assemblies.

RedGard SpeedCoat features cross linking moisture cure technology that produces exceptionally fast curing times (as quick as one hour per coat). This helps in the ability to flood test and install a shower system in one day, unlike typical membranes. Its moisture- cure technology allows it to cure effectively even in cool, damp conditions.

### Key Features

- Ready to use liquid-applied waterproofing membrane
- **Exceptionally fast cure time – one coat cures in as little as one hour**
- Revolutionary cross linking moisture cure technology
- Ideal from hot/humid to cold/damp conditions
- Listed with IAPMO for use as a shower pan liner
- One gallon waterproofs a standard size shower
- Coverage for one gallon of RedGard SpeedCoat is the same as 3.5 gallons of traditional waterproofing membranes
- Combine with CUSTOM's SpeedSlope™ Rapid Setting Sloping Mortar for a fast track shower tile installation system
- Excels on freshly installed mortar beds

### Suitable Substrates

- Concrete, cement mortar, masonry
- Cement Backerboard Units (CBU)

### Composition of Product

Reactive polymers with inorganic fillers and pigments.

### Benefits of Product in the Installation

- Reduces curing time with exceptionally quick-dry formula
- One hour cure after final coat before flood test or tile installation
- **Works effectively in "extreme conditions" of high moisture and cold weather**
- Easy to use and is applied by roller or trowel
- Rated for extra heavy duty service
- Meets Uniform Plumbing Code specifications for use as a shower pan liner
- Can be applied to young concrete



### Limitations to the Product

- Do not apply below 40°F or above 90°F
- Do not apply over surfaces subject to hydrostatic pressure or standing water
- Do not use to bridge or cover existing expansion, control, construction, cold or saw cut joints. Refer to EJ171 for treatment of movement joints.
- Do not use as an adhesive.
- **Do not mix with other waterproofing products, including RedGard® Waterproofing and Crack Prevention membrane.**
- Please contact CUSTOM Technical Services concerning use in steam showers.
- Do not use as a wear surface. The membrane must be protected from construction traffic prior to being covered with tile or other permanent flooring
- Do not use solvents in conjunction with the membrane
- **DO NOT SPRAY APPLY**

### Packaging

- 1 gallon (3.78 L) pail

## 4 Technical Data

### Applicable Standards

American National Standards Institute (ANSI) ANSI A108.01, A108.13, A118.10

American National Standards for the Installation of Ceramic Tile ASTM International (ASTM)

- 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



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## Approvals

RedGard®SpeedCoat has tested and complies with Uniform Plumbing Code and International Plumbing Code standards for use as a shower pan liner per IAPMO Research and Testing, Inc., File No. 4244.

RedGard®SpeedCoat has tested and complies with International Building Code (IBC), International Residential Code (IRC) and International Plumbing Code (IPC) standards for water resistance per ICC Evaluation Service, PMG-1389.

## Technical Properties Chart

Property	TestMethod	Requirement	TypicalResults
Fungus Resistance	A118.10 Section 4.1	No Growth	Pass
Seam Strength	A118.10 Section 4.2	> 8 lbs/" width	20 lbs/2" (9.1 kg/5 cm) width
Breaking Strength	A118.10 Section 4.3	> 170 psi	640 psi (45 kg/cm <sup>2</sup> )
Dimensional Stability	A118.10 Section 4.4	+/- 0.7%	0.01%
Waterproofness	A118.10 Section 4.5	No Water Penetration	Pass at 8.5 mils dry
Shear Bond Strength to Cement Mortar			
Four Week Shear Strength	A118.10 Section 5.5	> 50 psi	198 psi (13.9kg/cm <sup>2</sup> )
Shear Strength After Water Immersion	A118.10 Section 5.4	> 50 psi	80 psi (5.7 kg/ cm <sup>2</sup> )
System Performance			
Point Load	A118.12 Section 5.2	> 1000 lbs	> 1000 psi
Robinson Test	A118.12 Section 5.3	As Specified	14 Cycles; Extra Heavy



## 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.

## 5 Instructions

### General Surface Prep

**USE CHEMICAL-RESISTANT GLOVES, such as nitrile, when handling product.**

Wet areas must 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 troweled smooth and textured to a fine broom finish and cured for 24 hours. All cracks must be filled. All cracks greater than 1/8" wide should be prefilled with mortar, SpeedFinish(tm) Patching and Finishing Compound or CUSTOM 100% Silicone Sealant before beginning the waterproofing application.

## Movement Joint Placement

Do not bridge joints designed to experience movement. Carry these types of joints through the tile work. Follow TCNA, EJ171.

## 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](http://CustomBuildingProducts.com/TSD), select "Tile" as the installation type and select the appropriate illustrated TCNA detail by number (example: B414).

## General Waterproofing

For General Waterproofing, apply one continuous coat of SpeedCoat at a rate of 220 sq ft per gallon, to surface with a 1/4" smooth texture roller. Inspect and repair any voids in coating before installation of tile. Rough surfaces will reduce coverage rate, apply at a rate of 130 sq ft per gallon.

## RedGard SpeedCoat at Drains

Drains should have a clamping ring with open weep holes for thin-set application. Apply the RedGard SpeedCoat 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 SpeedCoat membrane around drain and embed Waterproofing Reinforcing Tape into the membrane, making sure it does not obstruct the drainage weep holes. Alternatively, fill the gap between the substrate and the drain flange with CUSTOM 100% Silicone Sealant. After the sealant is tacky to the touch, approximately 10 minutes, apply an initial coat of the membrane. When dry, apply an additional coat of the membrane. NOTE: Apply membrane over Silicone Caulk within 3 hours. Membrane will not adhere to silicone when applied on next day. After curing, clamp the upper flange onto the membrane and tighten. Use a rapid curing urethane caulk around the flange where the membrane and the upper flange make contact. A toilet flange can be treated in much the same manner.

## Applying RedGard® SpeedCoat Waterproof Membrane (ANSI 118.10)

Apply SpeedCoat and embed Waterproofing Reinforcing Tape at changes of plane and to treat other spaces in walls, ceilings or floors. Alternately, use CUSTOM 100% Silicone Sealant in place of fabric. Apply SpeedCoat membrane over silicone when it has become tacky.

**SMOOTH SURFACES:** Stir product by hand before using. Do not dilute. Apply RedGard® SpeedCoat using a 1/4" (6mm) smooth textured synthetic roller or flat steel trowel over the entire area to be treated. Apply two coats at 6 mils each over a 110 ft<sup>2</sup> area for proper coverage of an IAPMO shower pan creating a continuous, even film with overlapping strokes. Inspect the film for integrity and fill any voids or pinholes with additional material.



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ROUGH TEXTURED SURFACES will result in a reduced coverage rate. To meet IAMPO requirements for shower pans, use a steel trowel or a ½" nap (12mm) roller and apply two coats at 6 mils forming a continuous, even film at a rate of 130 sq ft per gallon for each coat. Inspect the film for integrity and fill any voids or pinholes with additional material. To achieve maximum coverage, smooth the surface with [SpeedFinish™ Patching & Finishing Compound](#) prior to applying membrane.

## Curing of Product

Each coat of RedGard® SpeedCoat is dry to the touch in typically 1hr. Product does NOT change colors as it dries. After the second coat is applied and cured, the application area can be flood tested, typically 1 hr later. Ambient conditions can affect dry time.

## Protection

If tile or stone will not be set immediately after curing, protect the application from heavy traffic damage. Protect from rain and inclement weather for 72 hours after application. If delays longer than 72 hours are expected, cover the area with felt paper. 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. Use epoxy adhesive meeting ANSI A118.3 for moisture sensitive tiles or where chemical resistance is required.

## Cleaning of equipment

Clean tools and hands with isopropyl alcohol (i.e. rubbing alcohol) before the material dries.

## 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.

## 6 Availability & Cost

Location	Item Code	Size	Color	Package
USA	RGSC1-2	1 gallon (3.78 L)	Red	Pail
Canada	CRGSC1-2	1 gallon (3.78 L)	Red	Pail

## 7 Product Warranty

Custom® Building Products warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. CUSTOM's sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with CUSTOM's printed instructions. CUSTOM makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another. This warranty is not transferrable.

## 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](http://custombuildingproducts.com).

## 10 Filing System

Additional product information is available from the manufacturer upon request.

## Related Products

RedGard® Waterproofing and Crack Prevention Membrane



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## Coverage

*Application Type	Number of Coats	Approximate Coverage Rate
IAPMO Shower Pan Waterproofing over CUSTOM SpeedSlope® - Rapid Setting Sloping Mortar; or over WonderBoard® Lite Backerboard and other smooth concrete	2	110 sq. ft./gal (10.2 sq meters/ 3.8 liters)
IAPMO Shower Pan Waterproofing over Portland Cement Mortar Beds	2	65 sq. ft./gal (6 sq meters / 3.8 liters)
General Waterproofing over CUSTOM SpeedSlope® - Rapid Setting Sloping Mortar; over WonderBoard® Lite Backerboard and other smooth surfaces	1	220 sq. ft./gal (20.4 sq meters / 3.8 liters)
General Waterproofing over rough concrete or standard Portland cement mortar beds	1	130 sq ft / gallon (12 sq meters / 3.8 liters)

\*Note that monolithic coats are required to waterproof and two coats are only required for IAPMO shower pan applications on floors, coves and curbs. Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions.



# CUSTOM®