

CUSTOM® 9240

WATERPROOFING AND ANTI-FRACTURE MEMBRANE

1. Product Name

Custom 9240® Waterproofing and Anti-Fracture Membrane

2. Manufacturer

Custom Building Products

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3. Product Description

Custom 9240 is a flexible, seamless waterproofing membrane with a liquid-applied polymer and reinforcing fabric that bonds to a variety of substrates and is ideal for heavy duty service installations. Designed for waterproofing tile and stone installations, Custom 9240 also provides protection from fractures to 1/8" (3 mm) over shrinkage and other non-structural cracks.

Substrates suited for Custom 9240 include:

- Concrete
- Ceramic tile
- Cement terrazzo
- WonderBoard®, cement backerboards
- Exterior grade plywood — For interior dry areas only
- Exterior decks
- Resilient flooring
- Cement plaster
- High pressure laminate

COMPOSITION & MATERIALS

Custom 9240 is a liquid-applied polymer with a reinforcing fabric.

SIZES

Custom 9240 is available by component or kit:

- 6 gal (22.7 L) pail of liquid
- 6" x 75' (0.15 x 22.85 m) fabric roll
- 36" x 100' (0.91 x 30.5 m) fabric roll
- Kit — 6 gal (22.7 L) pail of liquid and either 6" x 75' (0.15 x 22.85 m) or 36" x 100' (0.91 x 30.5 m) fabric roll

BENEFITS

- Rated for extra heavy duty service
- Forms flexible, seamless waterproofing for varying substrates
- Provides anti-fracture protection to 1/8" (3 mm) for shrinkage and nonstructural cracks
- Meets Uniform Plumbing Code specifications for use as a shower pan liner

LIMITATIONS

- Do not apply to surfaces that may drop below 40° F (4° C) within 72 hours of application.
- Do not apply 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; use Crack Buster® Pro membrane for control, cold or saw cut joints.
- Do not use as an adhesive.
- Do not use as a wear surface; the membrane must be covered with tile or other permanent flooring.

4. Technical Data

APPLICABLE STANDARDS

American National Standards Institute (ANSI) — ANSI A108/A118 American National Standards for the Installation of Ceramic Tile

ASTM International (ASTM)

- ASTM C191 Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle
- ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester
- ASTM D638 Standard Test Method for Tensile Properties of Plastics

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

APPROVALS

Custom 9240 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.

Custom 9240 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, ESR-1413.

TECHNICAL PROPERTIES

Property	
Pot life	Indefinite
ASTM C191	
Initial set @ 70° F (21° C)	1 – 1.5 hours
Drying time before tile installation	1 – 1.5 hours
ANSI 118.10	
Fungus and microorganism resistance	Pass – No growth
Seam strength	97 lb/in (6.8 kg/25 cm) width
Breaking strength	2550 psi (179.3 kg/cm ²)
Dimensional stability	No change
Waterproofness	Pass
Shear strength — 12 day dry cure	305 psi (21.4 kg/cm ²)
Shear strength — 100 day water immersion	89 psi (6.3 kg/cm ²)
ASTM C627	
Robinson floor test	14 cycles; extra heavy
ASTM D638	
% elongation — 21 day dry cure	<562%
% elongation — 7 day dry cure/ 21 day wet cure	<657%
IAPMO/Uniform Plumbing Code	
Waterproofness	Pass
Hydrostatic pressure and alkali resistance	Pass
FHA 4900-1-615-5, Sections C – D	Compliant
Permeance rating	0.06
Water vapor transmission	0.02 grains/hr ft ²
Drying time is dependent upon ambient conditions; longer times may occur in cooler and damp conditions.	

ENVIRONMENTAL CONSIDERATIONS

Custom Building Products is committed to environmental responsibility in both products produced and in manufacturing practices.

Use of Custom 9240 may contribute to LEED® certification.

5. Installation

PREPARATORY WORK

Surface Preparation

Exterior and 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 cured for 28 days and then troweled smooth and textured to a fine broom finish.

Existing surfaces must be scarified and leveled, and all defects must be repaired. Cracks exceeding 1/8" (3 mm) should be treated in accordance with TCNA F125 or TCNA F125A.

METHODS

Custom 9240 at Expansion Joints:

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 Custom 9240 liquid 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.

Custom 9240 for 2-Part System for Heavy Duty and Commercial Applications:

Apply a liberal coat of liquid, approximately 8" (20 cm) wide, over cracks and joints. Embed the 6" (15 cm) wide reinforcing fabric into the first coat of liquid. Apply a second liberal coat of liquid to seal the fabric.

To pre-treat coves and corners, apply a liberal coat of liquid. Fold 6" (15 cm) wide fabric in half and embed it into the liquid, flashing the fabric 3" (7.5 cm) up walls. Apply a second liberal coat of liquid to seal the fabric. Wet coat thickness should be 20 – 30 mils thick. Do not install over structural cracks, cracks with vertical movement or cracks with more than 1/8" (3 mm) horizontal movement.

To pre-treat penetrations, pack any gaps around pipes, lights or other penetrations with a compressible backer rod and suitable waterproof sealant. Apply a liberal coat of liquid around the penetration opening and embed pieces of 6" (15 cm) wide fabric into the liquid. Cover with a second layer of liquid. After curing, seal the flashing with a waterproof sealant.

For expansion joints and cracks in excess of 1/8" (3 mm), treat as expansion joints and follow the instructions provided previously for expansion joints.

To pre-treat drains for a 2-part system, have a clamping ring with open weep holes for thin-set application. The drain should be fully supported, without movement, and should be even with the substrate plane. Cut a square of reinforcing fabric approximately 38" x 38" (96 x 96 cm). In the center of the fabric, cut a hole that matches the diameter of the drain throat. Apply a liberal coat of liquid to the bottom flange. Center the circular cutout over the drain throat and embed the fabric into the liquid, making sure it does not obstruct the drainage hole. Apply an additional coat of liquid 20 – 30 mils thick. After curing, apply a waterproof sealant bead where the fabric cutout meets the drain throat. Clamp the upper flange onto the membrane and tighten. Caulk with silicone caulk around the flange where the membrane and upper flange make contact. A toilet flange may be handled in much the same manner.

Before beginning the 2-part Custom 9240 application, allow all pretreated areas to dry to the touch. Using a brush or roller, apply a liberal coat (20 – 30 mils thick) of liquid over the substrate, including pretreated areas. Lay reinforcing fabric into the wet liquid and smooth out any wrinkles. Press the fabric with a brush or roller until liquid bleeds through to the surface. Lap seams approximately 2" (5 cm). Flash the membrane over pretreated coves and corners so that the areas will have two layers of fabric. Apply another liberal coat of liquid over the fabric to saturate it. Let the top coat dry to the touch, approximately 1 – 3 hours. Apply another liberal coat (20 – 30 mils thick) of liquid over the entire surface to the seal membrane. When the last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects and use additional liquid to seal defects.

Reinforcing fabric and the third coat of liquid can be omitted over interior, vertical cement backerboard or drywall surfaces; pretreatment is, however, still required.

Custom 9240 for 1-Part System for Residential and Light Commercial Applications

Using the above instructions, reinforcing fabric and third coat of liquid can be omitted; however, pretreatment is required for coves, corners, seams, expansion joints and drains.

Custom 9240 for Interior CBU and Gypsum Wallboard Custom 9240 reinforcing fabric and the third coat of liquid may be omitted from main applications over interior walls and other vertical surfaces made with cementitious backer units (CBU) or gypsum wallboard; coves, corners, seams and board joints, however, must be pretreated as described previously.

Protection

If tile or stone will not be set immediately after curing, protect the Custom 9240 application from rain, direct sunlight 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 A118.11 standards.

Curing

Custom 9240 is dry when it turns a solid dark orange, normally 1.5 – 2 hours; ambient conditions can, however, increase drying time to 12 hours.

Cleaning

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

Coverage

Custom 9240 as Crack Isolation Coverage

- 30 mils wet — 54 ft²/gal (5 M²/3.78 L)

Custom 9240 as Waterproofing Membrane (ANSI A118.10)

- 60 mils wet — 27 ft²/gal (2.5 M²/3.78 L)

Custom 9240 as IAPMO Pan Liner

- 93 mils wet — 17 ft²/gal (1.6 M²/3.78 L)

PRECAUTIONS

Wear rubber gloves and eye protection while using this product. Avoid eye contact or prolonged contact with skin and wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Wash thoroughly after handling. Do not take internally. Keep out of the reach of children.

BUILDING CODES

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

6. Availability & Cost

Custom 9240 is available through distributors throughout the United States. Visit the www.custombuildingproducts.com website for information about product cost and availability.

7. Warranty

Custom 9240 is eligible for a lifetime system warranty when used as part of a complete installation system.

Custom Building Products ("Custom") 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 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 express or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

For details and complete warranty information, contact Custom Building Products or visit the Custom Building Products website: www.custombuildingproducts.com.

8. Maintenance

Properly installed product requires no special maintenance.

9. Technical Services

For technical assistance, contact Custom Building Products or visit the website: www.custombuildingproducts.com.

10. Filing Systems

Additional product information is available from the manufacturer upon request.

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