Custom® 9240 Waterproofing and Anti-Fracture Membrane



1. Product Name

Custom® 9240 Waterproofing and Anti-Fracture Membrane

2. Product Description

Custom® 9240 is designed for waterproofing tile and stone installations that securely bonds to a variety of substrates. It is a flexible, seamless waterproofing membrane system with a liquid-applied polymer and reinforcing fabric.

Key Features

- Waterproofing membrane rated for extra heavy-duty service installations
- Anti-fracture protection up to 1/8" (3 mm)
- 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

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

Benefits of Product in the Installation

- 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 non-structural cracks
- 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 over wet surfaces or surfaces subject to hydrostatic pressure.
- Do not use to bridge or cover over existing expansion, control, construction or cold 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.
- Do not use solvents in conjunction with the membrane.

Packaging

- 6 gallon (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 containing 6 gallon (22.7 L) pail of liquid, one 6" x 75' (0.15 x 22.85 M) fabric roll and one 36" x 100' (0.91 x 30.5 M) fabric roll

3. Technical Data

Applicable Standards

American National Standards Institute (ANSI) ANSI A108.01, A108.13, A108.17, A118.10 and A118.12 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
- ASTM D638 Standard Test Method for Tensile Properties of Plastics

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

Technical Chart

Property	Test Method	Requirement	Typical Results
Fungus Resistance	A118.10 Section 4.1	No Growth	Pass
Seam Strength	A118.10 Section 4.2	> 8 lbs/" width	97 lb/" (6.8 kg/25 cm) width
Breaking Strength	A118.10 Section 4.3	> 170 psi	2550 psi (179.3 kg/cm²)
Dimensional Stability	A118.10 Section 4.4	+/- 0.7%	No Change
Waterproofness	A118.10 Section 4.5	No Water Penetration	Pass
Shear Bond Strength to cement mortar			
Four Week Shear Strength	A118.10 Section 5.5	> 50 psi	305 psi (21.4 kg/cm²)
Shear Strength After Water Immersion	A118.10 Section 5.4	> 50 psi	89 psi (6.3 kg/ cm²)
System Crack Resistance			
Standard Performance	A118.12 Section 5.4	> 1/16" and < 1/8"	Pass
High Performance	A118.12 Section 5.4	> 1/8"	Pass
Point Load	A118.12 Section 5.2	> 1000 lbs	Pass
Robinson Test	A118.12 Section 5.3	As Specified	14 Cycles; Extra Heavy

Environmental Consideration

Custom® Building Products is committed to environmental

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responsibility in both products produced and in manufacturing practices. Use of Custom® 9240 may contribute to LEED® certification.

4. Instructions

General Surface Prep

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

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 troweled smooth and textured to a fine broom finish and cured for 28 days. Existing surfaces must be scarified and leveled, and all defects must be repaired. Cracks should be treated in accordance with TCNA F125 or TCNA F125A.

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 liberal coat (15-20 mils) 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 Commercial 100% Silicone Caulk.

Application of Product

Custom® 9240 for 2-Part System for heavy duty and commercial applications

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 €œTile€ as the installation type and select the appropriate illustrated TCNA detail by number (example: B414).

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 pretreat 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 15-20 mils thick. Do not install over structural cracks, cracks with vertical movement or cracks with more than 1/8" (3 mm) horizontal movement.

To pretreat 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 pretreat 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 15-20 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 100% Commercial 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 (15-20 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 (15-20 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.

Curing of Product

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. Installation can be flood tested 24 hours later. Swimming pools should not be filled for 7 days.

Cleaning of Equipment

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

Storage

Do not freeze.

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.

5. Size & Availability

Item Code	Size

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C9240K	Kit consists of: 6 gallon (22.7 L) pail of Part 1 Liquid Part 2 Fabric Carton containing: 1 - 6" x 75' (15 cm x 22.85 M) roll of fabric 1 - 36" x 100' (91.5 cm x 30.5 M) roll of fabric
C9240L	6 gallon (22.7 L) pail
C9240F	1 - 6" x 75' (15 cm x 22.85 M) roll of fabric 1 - 36" x 100' (91.5 cm x 30.5 M) roll of fabric

6. Product Warranty

Custom® 9240 is eligible for a lifetime system warranty when used as part of a complete installation system. 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. For details and complete warranty information, visit /reference-library/warranties.aspx.

7. Product Maintenance

Properly installed product requires no special maintenance.

8. Technical Services Information

For technical assistance, contact Custom® Building Products.

9. Filing System

Additional product information is available from the manufacturer upon request.

Coverage Chart

Coverage is for a full Custom 9240 kit, containing a 6 gallon (22.7 L) pail of Part 1 Liquid, one 6" x 75' (15 cm x 22.85 m) roll of fabric and one 36" x 100' (91.5 cm x 30.5 m) roll of fabric.

Size	Max Coverage
1 Kit	300 ft² (27.87 m²)

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