

Turtle Lake Golf Colony Condominium Association, Inc.
180 Forest Lakes Boulevard Clubhouse
Naples, FL 34105

Board of Directors Meeting

Thursday, February 15, 2024

Clubhouse

Meeting Minutes

Call to Order: Time: 7:00 p.m. by Bob Wiggins

Roll Call - Declared Quorum

Y Y Y Y Y Y Y Y Y
Ayerst, Brown, Dopkowski, Hestrup, Kelly, Mullaney, Di Nicola, Norsic, Wiggins

Officer Reports:

President, Bob Wiggins, read the resignation letter of Director Cindy Kelly effective 2/16/2024. Bob Wiggins thanked Cindy Kelly for service on the Board of Directors. Bob Wiggins explained how the Board was going to appoint a new Director.

A Treasures Report was presented by Doug Ayerst (report attached).

Manager's Report:

A Manager's Report was presented by Jeffrey Sanborn (report attached).

Approval of Minutes

Motion was made to move to the Board of Director's Meeting Minutes of January 18, 2024.

Motion: Jerry Norsic Second: Deborah Hestrup

8 for, 1 Abstained, motion passes.

Y AB Y Y Y Y Y Y Y
Ayerst, Brown, Dopkowski, Hestrup, Kelly, Mullaney, Di Nicola, Norsic, Wiggins

Agenda Items:

1. Motion was made to approve the waterproof barriers under tiles and/or carpet on lanais for new unit alterations (existing lanais will remain grandfathered). The following waterproofing was approved:

Lanai under tile: The approved product for this application is a waterproofing and crack prevention membrane. The product is called RedGard. Please see the attached flyer. It is recommended that this barrier should be for the Lanai floor and up the wall 4" to ensure the seam between the floor and the wall is covered.

Turtle Lake Golf Colony Condominium Association, Inc.

180 Forest Lakes Boulevard Clubhouse

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The Lanai under a rug or just painted: The approved product for this application is a Concrete & Masonry water proofer. The product is called DRYLOK Extreme. Please see the attached flyer. It is recommended that this barrier should be for the Lanai floor and up the wall 4" to ensure the seam between the floor and the wall is covered.

Inside the Condo: The approved product for this application is a soundproofing membrane. The product is called PROFLEX MSC 90. Please see the attached flyer. This product is a water and sound proofing product. It has a Sound Transmission Class (STC) rating of 72*. Any other brand-named product is fine if it has a STC rating of 72* or greater.

Motion: Bosonda "Sonie" Dopkowski Second: Deborah Hestrup
9 for, 0 against, motion passes.

Y Y Y Y Y Y Y Y Y
Ayerst, Brown, Dopkowski, Hestrup, Kelly, Mullaney, Di Nicola, Norsic, Wiggins

2. Motion was made approve a refund towing charge of \$125.00 to a unit owner.

Motion: Mike Brown Second: Cindy Kelly
2 for, 7 against, motion does not pass.

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Ayerst, Brown, Dopkowski, Hestrup, Kelly, Mullaney, Di Nicola, Norsic, Wiggins

3. Motion was made to approve the painting of the last Tennis court to create two (2) Pickleball Courts and to purchase two (2) Pickleball nets with wheels not to exceed \$300.00 as previously approved.

Motion: Nick Di Nicola Second: Eileen Mullaney
9 for, 0 against, motion passes.

Y Y Y Y Y Y Y Y Y
Ayerst, Brown, Dopkowski, Hestrup, Kelly, Mullaney, Di Nicola, Norsic, Wiggins

4. Adjourn – Time: 8:06 p.m.

Motion: Nick Di Nicola Second: Eileen Mullaney
9 for, 0 against, motion passes.

Y Y Y Y Y Y Y Y Y
Ayerst, Brown, Dopkowski, Hestrup, Kelly, Mullaney, Di Nicola, Norsic, Wiggins

Turtle Lake Golf Colony Condominium Association, Inc.
180 Forest Lakes Boulevard Clubhouse
Naples, FL 34105


Bosonda "Sonie" Dopkowski (Secretary)

Date: March 18, 2024

1/15/2024

Financial report for TLGC Through December 2023



Good morning,

Today I will cover our financials through December and where we ended last year 2023.

The state of TLGC is good.

Month of December 2023. Total operating income was \$184,303. Total expenses were \$219,288.

The financials for period ending 12/31/2023 shows a net **Loss of \$34,985.**

Largest expenses over plan were:

5035 Roof repairs \$6,967

\$19,697. YTD over plan.

6300 Electric \$4,071.

\$5,655. YTD over plan.

6320 water sewer \$37,237.

\$5,747 over plan YTD,

7000 Guardian management services \$8,849.

\$7,700. YTD over plan.

Consolidated year ending totals are:

\$98,739 Income gain

\$629,801. Reserve ending balance.

Reserves are fully funded moving forward.

CD's on money in banks. We now have \$400,000. In 30 day CD's at about 4.67%

Moving forward into 2024 urgent needs are:

Bldg 1 Roof replacement. Cost \$160,000.

Elevator upgrades. Door lock monitor vs modernization.

Door lock monitor required this year per statue.

Modernization due next year reserve budget

Modernization \$44,500 per elevator. \$535,000 for all.

Roof and elevators \$695,000. End of February reserves will be \$706,000.

Managers Report

2/15/2024

Board Meeting

Welcome

Start of 4th week.

Transition from Guardian to Sandcastle

- 1. ACH**
- 2. Late fees**

Pending Contracts 2024

- 1. Fire control**
- 2. New roof building 1**
- 3. 2024-2025 Insurance**

Buildings Inspections & Modernizations

- 1. Elevator upgrades**
- 2. Electrical upgrades**

Office improvements.

- 1. Forms and applications**
- 2. Contracts and Vendors**
- 3. Rules & Regulations**
- 4. Website schedule and uploads**
- 5. Governing Documents.**



PRODUCT DATA SHEET

Publication Date: 9-15-2023

DRYLOK® Extreme Concrete & Masonry Waterproofer

PRODUCT DESCRIPTION

DRYLOK® is ideal for interior/exterior, above/below grade masonry including cinder and concrete block, stucco, brick, and bare concrete swimming pools. Features Flexible Encapsulated Polymers for a beautiful, smooth waterproof finish. Specifically formulated to resist mildew growth on the dry paint film, with the incorporation of a biocide. Tested to ASTM D-7088 Resistance to Hydrostatic Pressure and ASTM D-6904 Resistance to Wind-Driven Rain. Stops 15 PSI, greater than a wall of water 33 feet (10 meters) high! Fully transferable 15 year warranty.

- Bright white, smooth finish
- Resists mildew growth on the dry paint film
- Resists 15 PSI, equivalent to a wall of water 33 ft. high
- Category 4-resists 140 MPH wind-driven rain
- Fully transferable 15 year warranty
- Guaranteed to stop water, even under pressure
- Features flexible encapsulated polymers
- Tintable

TECHNICAL DATA

COMPOSITION: Latex base

SHEEN: N/A

% WEIGHT SOLIDS: 67 ± 2

DENSITY (LBS./US GAL.): 10.13 ± 0.2

VISCOSITY: 120-130 Ku @ 77°F

pH: 9.0-10.0

COLOR:

- White - ready mixed formula
- 1 ready mixed color



COVERAGE

1st Coat: 75 sq. ft./gal.
2nd Coat: 75-100 sq. ft./gal.



COATS

Recommended



DRY TIME

2-3 hours
Recoat: 2 hours



CLEAN-UP

Soap and water

Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.



A SIKA COMPANY

DRY TIME:

- 2-3 hours
- To touch: 45 minutes
- To recoat: 2 hours
- Top coat with latex paint: 24 hours

Note: Maximum cure and dry time will be prolonged when slightly humid and damp, cool conditions prevail.

Note: When painting the inside of concrete non-potable watertanks, allow to dry at least 1 week before putting into service.

COVERAGE:

- 1st Coat: 75 sq. ft./gal.
- 2nd Coat: 75-100 sq. ft./gal.

Note: Actual coverage will vary depending upon application method, surface texture, and porosity.

RECOMMENDED FILM THICKNESS/COAT:

13-21 WMT per coat/ Minimum of 17 DMT for two coat application

SHELF LIFE: 5 years unopened container

FREEZE/THAW: Three cycles

CONTAINER SIZES: 1 gallon and 5 gallon containers

VOC

91 g/L

TINTING

May be tinted to light shades with universal tinting colorants. Use only 50% of color normally recommended. Do not use more than 2 fl. oz. (15 g/L) of colorant per gallon.

LIMITATIONS

DRYLOK® Extreme Concrete & Masonry Waterproofer may be applied over previous coatings in sound condition, but the warranty is void.

Not recommended for use on horizontal surfaces subject to foot traffic (see DRYLOK® Floor & Wall Masonry Waterproofer).

Not for use on fishponds (see DRYLOK® Original Concrete & Masonry Waterproofer).

SURFACE PREPARATION

Surface must be clean and free from dirt, dust, grease, oil, form release compound, or paint. Old paint in poor condition must be removed by using suitable means. Patch all holes or cracks and the floor/wall joint with DRYLOK® FAST PLUG®, a fast-setting hydraulic cement, and smooth the patch evenly with the surface. EFFLORESCENCE, a white, powdery, crystal-like deposit visible on the masonry surface, must be removed. DRYLOK® ETCH or muriatic acid, used according to manufacturer's directions, are effective efflorescence removal agents. All masonry surfaces are subject to occurrences of efflorescence. If the surface is slightly damp, wet, or efflorescence troubled, apply DRYLOK® Wet Wall Bonding Primer to troubled areas according to the label instructions. If applied to a bare masonry surface, this will not void the warranty.

WARNING

If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

APPLICATION

STIR THOROUGHLY BEFORE AND DURING APPLICATION. DO NOT THIN. Air and surface temperatures must be 50°F (10°C) or higher. Best results are obtained when applied over dry surfaces. Wait for a dry (rain-free) period to apply. It is recommended to test the product in a small area prior to full application to ensure the desired effect is achieved. Apply first coat with a roller [3/4" (19mm) nap], DRYLOK® BRUSH, or a good quality nylon bristle brush. If rolled, back-brush the first coat to fill pinholes. If brushed, work the DRYLOK® Extreme Concrete & Masonry Waterproofer into the pores of the masonry,

making sure to fill all pores and pinholes (see **COVERAGE**). APPLY TWO COATS. Allow to dry 2 hours between coats. Apply the second coat by roller, brush, or spray. For information on spray application specifications visit www.DRYLOK.com. DRYLOK® is an ideal finish coat. However, for decorative purposes, you can apply a good quality latex paint. Wait 24 hours before applying decorative top coat. **NEW CONCRETE:** When applying to new concrete, let concrete cure for 28 to 30 days or reach a pH of below 10 before applying DRYLOK® Extreme Concrete & Masonry Waterproofer. DRYLOK® is an ideal finish coat. However, for decorative purposes, you can apply a good quality latex paint. Wait 24 hours before applying decorative top coat.

IMPORTANT

If leaking is still present after two coats, it indicates that pores or pinholes are still open. These areas should be painted again. When painting the inside of swimming pools and non-potable water tanks, allow DRYLOK® Extreme Concrete & Masonry Waterproofer to dry at least one week before putting into service.

SPECIFICATION

DRYLOK® Extreme Concrete & Masonry Waterproofer has been tested in accordance to requirements of ASTM D-7088 Resistance to Hydrostatic Pressure at 15 PSI and exceeds ASTM D-6904 Resistance to Wind-Driven Rain of 140 mph.

CSI Masterformat:

07 14 16 COLD FLUID-APPLIED WATERPROOFING

09 91 13 EXTERIOR PAINTING

09 91 23 INTERIOR PAINTING

CAUTION

WARNING: Vapor harmful. May affect the brain or nervous system causing dizziness, headache, or nausea. Causes eye, nose, and throat irritation. May be harmful if absorbed through skin. Harmful if swallowed.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. **Use only with adequate ventilation.** Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache, or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH-approved) during and after application. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling.

**KEEP OUT OF REACH OF CHILDREN.
DO NOT TAKE INTERNALLY.
KEEP FROM FREEZING.**

If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

FIRST AID

EYES: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes, call poison control center, hospital emergency room, or physician immediately.

INHALATION: If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, call poison control center, hospital emergency room, or physician immediately.

INGESTION: If swallowed, do not induce vomiting. Call poison control center, hospital emergency room, or physician immediately.

 **WARNING: Cancer and Reproductive Harm**
- www.P65Warnings.ca.gov.

For additional health and safety information, please refer to the Safety Data Sheet (SDS).

LIMITED WARRANTY

United Gilsonite Laboratories (UGL) warrants DRYLOK® Extreme Concrete & Masonry Waterproofer, when applied according to directions on a properly prepared bare masonry surface, will provide a waterproof coating for fifteen (15) years from the date of application, warranty includes subsequent owners. There are no other warranties that extend beyond this warranty. This warranty shall not apply when the waterproofer fails due to improper product application, failure to follow label directions, inadequate surface preparation, cracked structural surfaces, reoccurring efflorescence or any conditions not foreseen by UGL. Two coats of DRYLOK® Extreme Concrete & Masonry Waterproofer are required to assure warranted waterproofing. Label directions are as complete as possible, but cannot encompass all conditions, applications and/or surfaces. In the event that the coating fails, your remedy is limited to either replacement of the product purchased or refund of the purchase price. This is the exclusive remedy. For warranty fulfillment, return used product container and sales receipt to UGL, Technical Customer Service, 1396 Jefferson Ave., Dunmore, PA, 18509. **THIS LIMITED WARRANTY EXCLUDES ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE.** UGL will in no event be liable for any incidental or consequential damages. Some States do not allow limitations on how long an implied warranty lasts or the exclusion or limitations of incident or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

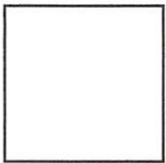
DRYLOK® and Fast Plug® are registered trademarks of United Gilsonite Laboratories (UGL).

DISCLAIMER: This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of UGL's knowledge, or obtained from sources believed by UGL to be accurate, and UGL does not assume any legal responsibility for use or reliance upon same. Before using any product, read the label.

DRYLOK® EXTREME

| | CONTAINER | NUMBER/CASE | COLOR | ORDER NUMBER |
|---|-----------|-------------|--------------|--------------|
| DRYLOK® Extreme Concrete & Masonry Waterproofer | 1 gallon | 2/case | Bright White | 28613 |
| DRYLOK® Extreme Concrete & Masonry Waterproofer | 1 gallon | 2/case | Gray | 21913 |
| DRYLOK® Extreme Concrete & Masonry Waterproofer | 5 gallon | 1/case | Bright White | 28615 |
| DRYLOK® Extreme Concrete & Masonry Waterproofer | 5 gallon | 1/case | Gray | 21915 |

Note: Color swatches are representative only.



Bright White



Gray



A SIKA COMPANY

1-800-845-5227 • Fax 1-570-969-7634 • www.DRYLOK.com

Corporate Office: 1396 Jefferson Avenue, Dunmore, PA 18509

Mail to: P.O. Box 70, Scranton, PA 18501-0070

Plant Locations: Jacksonville, IL • Jackson, MS

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

RedGard® is a ready-to-use, rapid drying, liquid applied elastomeric, waterproofing and crack prevention membrane that does not require fabric in the field, coves or corners. It can be used for interior or exterior commercial, industrial or residential tile and stone floor & wall installations. Easily applied with roller, trowel or sprayer producing a continuous water and moisture barrier with outstanding adhesion. Bonds directly to metal and drains of PVC, stainless steel and ABS. Reduces concrete moisture vapor transmission to protect moisture sensitive tile, stone and other flooring types.

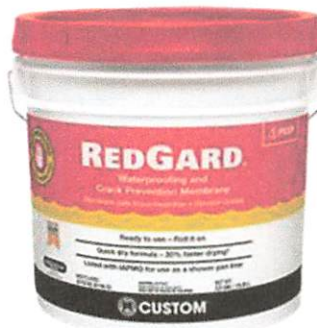
RedGard meets ANSI A118.10-LV/TV requirements for waterproofing membranes and ANSI A118.12 High Performance $\geq 1/8"$ (≥ 3 mm) for crack isolation membranes. Meets Uniform Plumbing Code specifications for use as a shower pan liner. Listed with IAPMO R & T, File #4244 UPC®, ICC-ES ESR-1413. Meets low perm requirements for steam room vapor barriers per ASTM E-96 Procedure E.

Key Features

- Ready to use - Quick dry formula
- Fabric not required
- Listed with IAPMO for use as a shower pan liner
- Elastomeric – Isolates cracks up to 1/8" (3mm)
- Meets steam shower requirements for low perm membrane
- Manages concrete moisture vapor emissions up to 12lbs./ 85%RH
- Rated for Extra Heavy Service Conditions per TCNA/ASTM C627
- Flood test immediately after drying

Uses

- Interior surfaces / exterior concrete and masonry surfaces
- Shower pans, showers, tub surrounds
- Swimming pools, fountains, water features
- Spas, hot tubs, steam showers, steam rooms
- Industrial, commercial and residential applications
- Commercial /residential kitchens, food processing areas
- Exterior balconies and decks over occupied/unoccupied spaces
- Exterior facades



Suitable Substrates

- Concrete, cement mortar, masonry
- Cement Backerboard
- Post-Tension Concrete*
- Gypsum-based underlayment (min. 2000 psi compressive strength)
- Lightweight Concrete (min. 2000 psi compressive strength)
- Existing ceramic tile and resilient flooring
- Drywall (interior dry areas)
- Coated Glass Mat Water-Resistant Gypsum Backer Board
- APA/CANPLY rated EGP/Exterior Glue Plywood and OSB/Oriented Strand Board (interior, dry areas only for water protection and crack isolation applications)
- Bonds directly to metals*
- Floor heating systems*
- Pipe penetrations/transitions - PVC, ABS, copper, brass and stainless-steel (abrasion required)

* Deflection requirements and material selection can affect success of the tile assembly. Contact Custom Building Products Technical Services for cautions, limitations and recommendations.

Composition of Product

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

Benefits of Product in the Installation

- Thin/low profile membrane, from 0.015–0.038" (0.4–0.96 mm) thickness after cure. (Thickness is determined by application)
- Easy to use and can be applied by roller, trowel or airless sprayer
- Reduces curing time with quick-dry formula
- Rated for extra heavy-duty service (TCNA/ASTM C627)
- Isolates cracks up to 1/8" (3 mm)
- Reduces efflorescence from substrates
- Meets Uniform Plumbing Code specifications for use as a shower pan liner IAPMO/File #4244 UPC®, ICC-ES ESR-1413
- GreenGuard Gold Certification # 135952-420
- LEED EQc 4.2 Low VOC Emitting Materials/MRc5 Regional Materials
- Non-flammable / No solvents



CUSTOM®

RedGard® Waterproofing and Crack Prevention Membrane

Limitations to the Product

- Ambient and surface temperatures must be above 40°F (4°C) at time of installation and for 72 hours after application.
- Tile over membrane within 72 hours in exterior applications to avoid extended exposure to ultraviolet rays. Alternately, tent area or cover with sun blocking sheeting; or apply a flat application of high performance thinset mortar; or apply a one-time additional coat of liquid prior to 72 hrs. to extend timeframe another 72hrs.
- Existing concrete slabs on-ground relative humidity levels to be ≤85% and pH levels ≥7 or ≤13. *
- Do not apply over wet surfaces or surfaces subject to hydrostatic pressure.
- Use [Crack Buster® Pro Crack Prevention Mat Underlayment](#) to relocate tile joints over saw cuts/control joints in concrete slabs. See details in Movement Joint Placement section for instructions to accommodate waterproofing over concrete slab joints.*
- Do not use as an adhesive.
- Some glass tile manufacturers do not recommend use of a membrane behind their glass tile products.
- Do not use pre-mixed adhesives over membrane.
- Do not apply over unstable substrate conditions such as laitance, weak or powdery surfaces.
- Do not use over pressure treated wood surfaces.
- Do not use as a wear surface; the membrane must be covered with tile or other permanent flooring.
- Do not expose membrane to solvent-based materials.
- Compatible with water-based paints only.

*Contact Technical Services for other conditions not listed and/or additional information.

Packaging

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

4 Technical Data Applicable Standards

Material Standards

- Exceeds American National Standards Institute/ANSI A118.10 Load Bearing, Bonded, Waterproofing Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation
- Exceeds American National Standards Institute/ANSI A118.12 Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation
- 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 ASTM E-96 Standard Test Methods for Water Vapor Transmission of Materials/Method E
- Conforms to Wisconsin's performance requirements for "safing material" as established by Comm. 84.30 (6)(f) of the Wisconsin Administrative Code; CA Section 01350 and passes CDPH V1.2-2017.
- Uniform Plumbing Code specifications for use as a shower pan liner. Listed with IAPMO R & T, File #4244 UPC®, ICC-ES ESR-1413

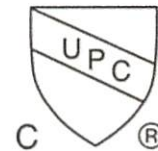
Installation Standards

- American National Standards Institute (ANSI) ANSI A108.01, A108.02, A108.13, A108.17
- Tile Council of North America (TCNA) TCNA Handbook for Ceramic Tile Installation, includes methods EJ171(movement joints), Methods F125 & F125A for crack isolation and crack transference protection
- Meets/exceeds requirements as listed in Specifications Guide 09 30 00 Tile Installation Manual published by the Terrazzo, Tile & Marble Association of Canada/TTMAC Approvals

Approvals

RedGard® 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® 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. RedGard® conforms to "safing material" requirements established by the Wisconsin Administrative Code, Chapter Comm 84.30-6f.

- GREENGUARD Gold Certificate # 135952-420
- LEED EQc4.1 & 4.2 Low VOC Emitting Materials/MRc5 Regional Materials
- ASTM C627 (Robinson) for extra heavy service rating
- ASTM E-96 Method E, meeting requirements of <0.5 perms
- Los Angeles Department of Building and Safety - per LAMC 98.0502



CUSTOM®

RedGard® Waterproofing and Crack Prevention Membrane

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. per 1" >16 lbs. per 2" | >16 lbs. per 2" |
| Breaking Strength | A118.10 Section 4.3 | > 170 psi | 484 psi (34kg/cm ²) |
| Dimensional Stability | A118.10 Section 4.4 | +/- 0.7% | 0.05% |
| Waterproofness | A118.10 Section 4.5 | No Water Penetration | Pass at 25 mils dry |
| Steam Shower Requirement | ASTM E-96 Method E | < 0.5 perms | 0.35 perms at 30 mils dry |
| Shear Bond Strength to Cement Mortar | | | |
| Four Week Shear Strength | A118.10 Section 5.5 | > 50 psi | 267 psi (18.8 kg/cm ²) |
| Shear Strength After Water Immersion | A118.10 Section 5.4 | > 50 psi | 89 psi (6.3 kg/cm ²) |
| System Crack Resistance | | | |
| Standard Performance | A118.12 Section 5.4 | > 1/16" and < 1/8" | Pass at 30mils dry |
| High Performance | A118.12 Section 5.4 | > 1/8" | Pass at 30mils dry |
| Point Load | A118.12 Section 5.2 | > 1000 lbs. | > 1000 psi |
| Robinson Test ASTM C627 | A118.12 Section 5.3 | As Specified | 14 Cycles; Extra Heavy |
| VOC Test Results | | | |
| VOC Content | EPA Method 24 | SQAQMD Rule 113/CARB SCM 2019 (<100 g/L) | <5 g/L (0% CARB VOC) |
| VOC Emissions | Complies with CA Section 01350 & CDPH V1.2-2017 | | Compliant (TVOC=0.5 mg/m ³ or less) |

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.

Instructions

General Requirements Installing Finishes Using Products Manufactured by Custom Building Products

Note: The recommendations within this document are common industry standards and Custom Building Products' requirements. Additional limitations or specific recommendations may be listed within datasheets of products used in an installation assembly. When those instructions conflict with this document, the most stringent requirements and limitations shall apply.*

All substrates and surfaces must be structurally sound, stable and suitable for the project's usage including managing weight and deflection from live and dead loads for the lifetime of the structure. Minimum deflection requirements are L/360 for all flooring finishes over concrete and all vertical substrates; L/720 for natural stone over wood framing.

Concrete, cement-based and gypsum-based underlayment and patching compounds must be adequately cured and not exhibit signs of excessive moisture emissions, condensation, efflorescence and hydrostatic conditions/issues beyond the finish product manufacturers' limits or other products within the assembly.

CUSTOM®/CustomTech™ cement-based preparation products may be used in assemblies over concrete with high moisture vapor emission levels provided that other materials such as finish flooring, adhesives or membranes are recommended in these conditions. Consult the manufacturers for their limitations and requirements. Effective moisture mitigation is required when products and finishes in the assembly limit moisture emission levels. **Note:** Moisture mitigation systems manage moisture vapor emissions from the initial concrete placement and when an effective vapor retarder/barrier is placed directly below on-ground slabs. They are not intended to manage excessive water intrusion or negative hydrostatic pressure.

Concrete is to have ≥3000 psi (20.7 MPa) compressive strength and lightweight or gypsum-based underlayment must obtain ≥2000 psi (≥13.8 MPa) compressive strength and tensile strengths ≥200 psi (≥1.4 MPa). Surfaces must be clean, dry and free from contaminants that would prevent or inhibit adhesion bonding. Contaminants and curing compounds should be mechanically removed before installation. Most CUSTOM® products require absorptive surfaces. To assess surface absorption, refer to [ASTM F3191](#) for horizontal areas and place water droplets no higher than 1" (25mm) from the surface (≤1/2" / ≤12mm is preferred). Use a damp sponge to evaluate water absorption on vertical or overhead areas. Cracks in concrete 1/8" (3mm) or wider are generally considered to be structural. Cracks and differential (out of plane) substrate surfaces are to be evaluated by the contractually-obligated project design professional, and remedied prior to applying and installation system. Follow appropriate industry standards and individual product recommendations for treating concrete slab shrinkage cracks and slab joint treatment. Consult [ASTM F710](#) for resilient, carpet tile, carpet and wood flooring; or [ANSI A108](#) and [TCNA](#) -Movement Joints for ceramic tile and natural stone tile.

All surfaces must be flat and smooth (and properly pitched, level or plumb when required) prior to installing finishes. Flatness tolerances vary for finishes as shown below from the required plane, when measured from the high points in the surface. It is the responsibility of the installer to determine the suitability of the substrate and any required preparation work necessary to ensure a successful installation.

Industry Tolerances - Flatness and Pitch:

Ceramic tile <15" - 1/4 in. in 10 ft. (6 mm in 3 m) and no more than 1/16 in. in 1 ft. (1.6 mm in 0.3 m)

Ceramic tile ≥15" & Gauged Porcelain Tile/Panels - 1/8 in. in 10 ft. (3 mm in 3 m) & no more than 1/16 in. in 2 ft. (1.6 mm in 0.6 m)

Resilient, Carpet Tiles, Carpet - 3/16 in. (3.9 mm) in 10 ft and 1/32 in. (0.8 mm) in 12 in. (305 mm)

Hardwood – Concrete 1/8 - 3/16 in. in 10 ft radius (3 -3.9 mm in 305cm radius)

Hardwood – Plywood 3/16 in. in 10 ft (3.9 mm in 305 cm) or 1/8 in. in 6 ft (3 mm in 183 cm)

Pitch - Exterior and drainage areas to be sloped at a minimum of ¼ in. per linear ft (≥6 mm in 300 mm)

RedGard® Waterproofing and Crack Prevention Membrane

Substrate and ambient temperatures, relative humidity, UV exposure, excessive wind and inclement weather can affect product performance, drying or curing timeframes during and after installation. Acceptable temperatures for products, mixing water and additives are generally between 50°F - 90°F (10° - 32° C). The area where finishes are installed should be acclimated prior to installation by providing heat or cooling and protection as needed. These conditions are to stay in place during and after installation to allow products to properly cure. Disable radiant heating systems at least 24 hours prior, during and 72hrs after installation. Follow radiant heating system manufacturer's instructions for start-up procedures to gradually introduce heat. Follow industry guidelines for water and moisture exposure to installation assemblies, especially with fill and draining rates in water features.

* Consult individual product datasheets for recommendations and limitations regarding project conditions. Assembly mockups can determine suitability for these conditions on specific projects. Contact CUSTOM Technical Services for questions and product information: [CONTACT CUSTOM](#) or (800) 282-8786. Instructional videos, bulletins and white papers available at: custombuildingproducts.com/reference-library.aspx

Industry Association References:

[International Building Code](#) (IBC)
[International Residential Code](#) (IRC)
[American Concrete Institute](#) (ACI)
[International Concrete Repair Institute](#) (ICRI)
[ASTM International](#) (ASTM)
[Tile Council of North America](#) (TCNA)
[American National Standards Institute](#) (ANSI)
[Resilient Floor Covering Institute](#) (RFCI)
[National Wood Flooring Association](#) (NWFA)
[Natural Stone Institute](#) (NSI)
[National Tile Contractors Association](#) (NTCA)
[International Masonry Institute](#) (IMI)

5 General Surface Prep

WEAR IMPERVIOUS GLOVES, such as nitrile, and eye protection when handling product.

All surfaces must be structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter.

Concrete must be fully cured and have an effective under-slab vapor retarder/barrier. Any existing flooring must be well bonded and stripped of old finish. All substrates should support anticipated live and dead loads in design/performance and meet all international, local, regional or provincial code requirements.

Exterior and wet areas must have proper sloping to drains without divots that would affect drainage. All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent a proper bond. Concrete must be troweled smooth but not burnished (highly polished) and cured for 28 days. Most existing surfaces are to be scarified and flattened and all defects must be repaired. Dormant cracks should be treated in accordance with TCNA F125 or TCNA F125A methods.

Concrete and Masonry Surfaces

All surfaces must be structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter. Concrete must be fully cured and have an effective underslab vapor retarder/barrier. Any existing flooring must be well bonded and stripped of old finish.

All substrates should support anticipated live and dead loads in design/performance and meet all international, local, regional or provincial code requirements.

Bonding to Lightweight Cement and Gypsum Surfaces

Lightweight or gypsum-based materials must obtain a minimum of 2000 psi (13.8 MPa) compressive strength at the recommended cure time. The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings. Surfaces to be covered must be clean, structurally sound and subject to deflection not to exceed the current ANSI standards. Expansion joints must be installed in accordance with local building codes and ANSI/TCNA guidelines.

Prime all surfaces to receive RedGard® with properly applied manufacturer's sealer or with a primer coat of RedGard®, consisting of 1-part RedGard®, diluted with 4 parts clean, cool water. In a clean pail, mix at low speed (≤300rpm). Apply the diluted mixture using a clean, fine head bristle broom to scrub in the primer solution at a rate of 300 ft/gallon (7.5 M/L). Keep the surface of the substrate wet for at 3-5 minutes during application to ensure adequate and even distribution / penetration of primer coat. Allow primer coat to dry, then apply at least one coat of "undiluted" RedGard® before adhering tile, floor patch or other flooring material applications. See Coverage Section for square foot rates by application.

RedGard® as a Vapor Barrier

When used as a vapor barrier over concrete, apply one full coat (70 sq. ft. per gallon) where vapor transmission is up to 8 lbs. per 1000 sq. ft. per day and two full coats (70 sq. ft. per gallon each coat) where vapor transmission is up to 12 lbs. per 1000 sq. ft. per day. Refer to ASTM F1869 for more information on Vapor Transmission Testing.



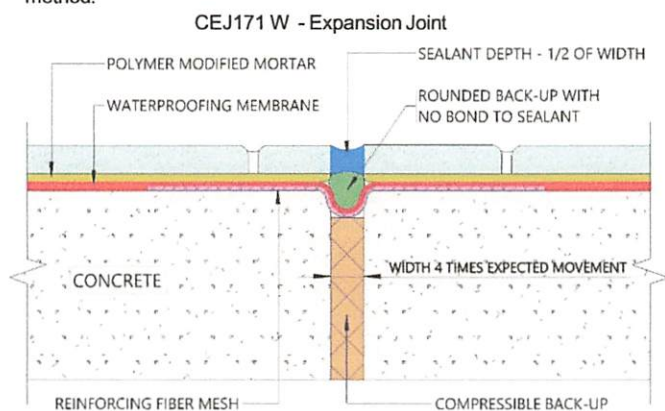
RedGard® Waterproofing and Crack Prevention Membrane

Movement Joint Placement

All tile assemblies, including those using Porcelain tiles, expand and contract with temperature changes and/or exposure to moisture and are subject to movement by the underlying structure due to live and dead loads. For these reasons, do not bridge joints with tile when they are designed to experience movement. Carry these types of joints from the substrate through the tile in locations, widths and frequency recommended by the Tile Council of North America (TCNA) or Terrazzo, Tile & Marble Association of Canada (TTMAC).

Follow [ASTM C1193](#) guidelines using CUSTOM® [Commercial100% Silicone Sealant](#) or other suitable sealant applying the sealant as flush as possible with the tile edges.

RedGard® can be used to waterproof movement joints using proper methods incorporating suitable sealant and other industry approved expansion joint materials as illustrated below. Assure that movement joints are free of debris and mortar and install using the appropriate specified method.



See CUSTOM® details at links below or on our website for reference:

- EJ 171 W – Expansion Joint ([PDF](#)) ([DWG](#))
- CEJ 171 AW – Construction Joint ([PDF](#)) ([DWG](#))
- CEJ 171 BW – Contraction Joint ([PDF](#)) ([DWG](#))
- CEJ 171 CW – Expansion Joint ([PDF](#)) ([DWG](#))
- CEJ 171 DW – Isolation -Expansion Joint ([PDF](#)) ([DWG](#))
- CEJ 171 EW – Expansion Joint, Cement Mortar, Bonded ([PDF](#)) ([DWG](#))
- CEJ 171 FW – Generic Movement Joint ([PDF](#)) ([DWG](#))
- CEJ 171 GW – Perimeter Joint ([PDF](#)) ([DWG](#))
- CEJ 171 HW – Expansion Joint, Mortar, Cleavage Membrane ([PDF](#)) ([DWG](#))
- CEJ 171 IW – Perimeter Joint ([PDF](#)) ([DWG](#))
- CEJ 171 JW – Perimeter Movement Joints ([PDF](#)) ([DWG](#))
- CEJ 171 KW – Movement Joint in Tile and Backerboard ([PDF](#)) ([DWG](#))
- CEJ 171 LW – Generic Movement Joint with Backerboard ([PDF](#)) ([DWG](#))
- CEJ 171 GCW – Generic Movement Joint Concrete / Masonry Wall ([PDF](#)) ([DWG](#))
- CEJ 171 ECW – Expansion Joint – Concrete or Masonry Wall ([PDF](#)) ([DWG](#))
- CEJ 171 NMW – Movement Joint – Reinforced Mortar Bed ([PDF](#)) ([DWG](#))
- CEJ 171 BMW – Movement Joint – Bonded Mortar Bed ([PDF](#)) ([DWG](#))
- CEJ 171 SJBW – Steam Shower/Room Slip Joint–Backerboard Unit ([PDF](#)) ([DWG](#))
- CEJ 171 SJMW – Steam Shower/Room Slip Joint–Mortar Bed ([PDF](#)) ([DWG](#))
- CEJ 171 WPM – Combined Waterproofing Movement Joint Details ([PDF](#))

Application of Product

For all applications, use RedGard®, a thinset mortar or suitable patch to fill cracks $\geq 1/8"$ (≥ 3 mm) before applying RedGard® liquid. In high temperatures, windy conditions and when applying over very porous substrates, lightly dampen the surface or use a diluted mixture of RedGard® as a primer coat prior to the normal application. (Primer Coat- *In a separate container, dilute 1-part RedGard® with 4 parts water and mix until well blended. Use either a paint brush, a 3/8" (10 mm) rough-textured, synthetic roller or airless sprayer to apply the primer coat to the entire area to be waterproofed.*) 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 and apply second coat.

RedGard® as a Waterproof Membrane

Coat corners and intersections of the floors and walls, extending $>2"$ (5 cm) on either side with RedGard® liquid using either a paint brush, a 3/8" (10 mm) rough-textured, synthetic roller or a 3/16"-1/4" (56 mm) V-notch trowel. For extra seam protection, embed [CUSTOM® Waterproofing Reinforcing Tape](#) into the liquid for changes of plane and over gaps $>1/8"$ (>3 mm). Allow these areas to dry before re-applying.

For general waterproofing, apply RedGard® at a rate of 110 sq. ft per gallon in each coat. NOTE: A minimum of two coats is required when using a roller or brush to assure that continuous coverage is achieved. If using a roller, apply a continuous, even film with overlapping strokes. Apply the second coat at right angles to the first coat for best results. When using a trowel, spread the liquid with the trowel held at a $>30^\circ$ angle, and then flatten the ridges. Over a solid wall surface, a minimum 15 mils thickness is required above a tub surround or shower floor cove. 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 and apply second coat.

To meet the waterproofing requirements of ANSI A118.10 and IAMPO, two coats should be applied at a rate of 80 sq. ft. per gallon each coat. In all cases, the wet film thickness of any coat should not exceed 40 mils.

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. See [CUSTOM Technical Bulletin TB35](#) for instructions.



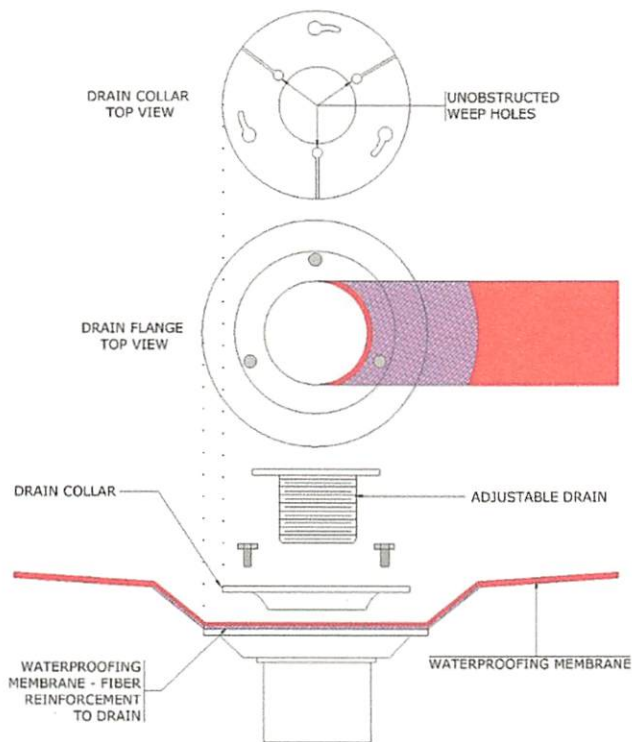
RedGard® Waterproofing and Crack Prevention Membrane

RedGard® at Drains

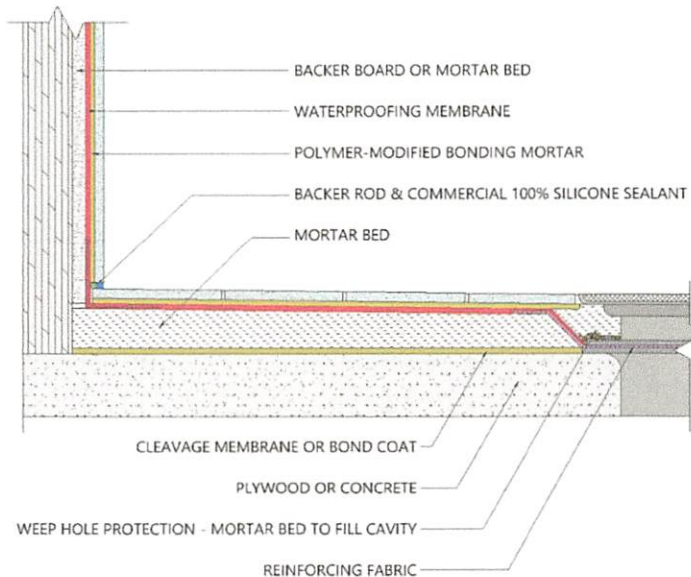
Drains are to be securely fastened to prevent movement. Prior to applying RedGard®, substrate is to be properly sloped toward drain flange. Remove any contaminants on drain flange that might inhibit bonding and protect threaded bolt holes with tape or inserting bolts before applying liquid.

Cut and fit pieces of reinforcing fabric (approximately 3" long.) to contour and encompass drain flange. Apply a coat of RedGard® overlapping transition from substrate or mortar bed to drain flange using a brush. Embed reinforcing fabric into RedGard® liquid. Overlap saturated fabric and use the brush to keep it flat. Continue applying RedGard® to adjacent areas designated to be waterproofed. Allow first application of RedGard® to dry, then recoat all areas to create a monolithic membrane. After final coat is dry, clamp collar to membrane and tighten.

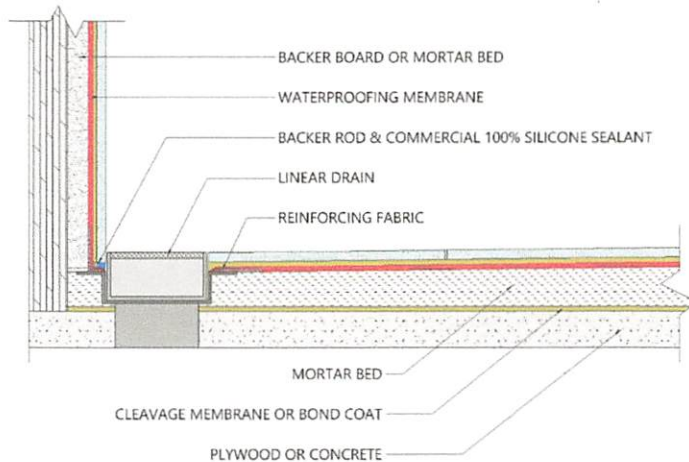
RedGard® Circular Drain Assembly Detail



RedGard®, Mortar Bed & Circular Drain (CB421)



RedGard®, Mortar Bed & Linear Drain



NOTE: Download the illustrated installation details referenced above at the links below: (need to add docs to site and activate links below)

- RedGard® - Circular Drain Assembly Detail ([PDF](#)) ([DWG](#))
- RedGard® - Mortar Bed & Circular Drain (CB421) ([PDF](#)) ([DWG](#))
- RedGard® - Mortar Bed & Linear Drain ([PDF](#)) ([DWG](#))



RedGard® Waterproofing and Crack Prevention Membrane

RedGard® as a Crack Prevention Membrane

RedGard® can be applied using either a V-notched trowel, a 3/8" (9.5 mm) rough textured roller, or a bristle brush. Fill non-structural cracks using either RedGard®, thinset mortar or patch. Then apply RedGard liquid at least 6" beyond any tile that will be bridging the crack. When using a notched trowel, immediately use the flat side and flatten the ridges to form a continuous, even coat of material.

For continuous general crack isolation, cover the entire substrate with one coat of RedGard® applied at a rate of 100 sq. ft. per gallon.

To meet specification requirements for ANSI A118.12, apply two coats of RedGard at a rate of 50 sq. ft. per gallon per coat.

NOTE: Cracks $\geq 1/8"$ or displaying differential movement may be due to structural movement and should be assessed and/or treated by an appropriate structural engineer or consultant.

Curing of Product

RedGard® is dry when it turns solid red, with no visible pink color. Typically, drying time is 1-1.5 hours for each coat. After the second coat is applied and both coats are fully dry, the application area can be flood tested. Membrane will lighten in color when wet and darken again when dry. This reaction is normal. Drying time can be extended to as much as 12 hours in conditions of very low surface and/or ambient temperatures and when applying in high humidity.

Protection

Maintain ambient and surface temperatures above 40°F (4°C) at time of installation and for 72 hours after application. Care should be taken to prevent the membrane from becoming contaminated by bond inhibiting materials, solvents or being punctured after application. Cover RedGard with tile, an additional coat of liquid, a flat application of mortar or UV blocking sheeting if not to be tiled within 72 hours when exposed to sunlight. Protect RedGard from water intrusion that could occur behind or beneath the applied membrane if drip edges and/or flashing is not in place at the time of 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 based on application requirements.

Cleaning of Equipment

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

Health Precautions

IMPORTANT: Read carefully before using. WEAR IMPERVIOUS GLOVES, such as nitrile, and eye protection.

WARNING: EYE & SKIN IRRITANT. May be harmful if swallowed. Do not mix with other chemical products. Avoid contact with eyes and prolonged contact with skin. Do not breathe in vapors. Do not take internally. Immediately wash contaminated body and clothing thoroughly. Use in well-ventilated areas. Wear a NIOSH compliant vapor respirator, especially in poorly ventilated areas.

If eye or skin contact occurs:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately seek medical advice or attention if symptoms are significant or persist. In Emergency: 1-800-535-5053. **Contains: Styrene-butadiene polymer, limestone, and ammonium hydroxide.** Before handling read Safety Data Sheet at www.custombuildingproducts.com.

KEEP OUT OF REACH OF CHILDREN.

⚠ WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

6 Availability & Cost

| Location | Item Code | Size | Color | Package |
|----------|-----------|---------------------|-------|---------|
| USA | LQWAF1 | 1 gallon (3.78 L) | Pink | Pail |
| USA | LQWAF3 | 3.5 gallon (13.2 L) | Pink | Pail |
| Canada | CLLQWAF1 | 1 gallon (3.78 L) | Pink | Pail |
| Canada | CLLQWAF3 | 3.5 gallon (13.2 L) | Pink | Pail |

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 Handling & Storage

Protect from freezing. Store in a cool, dry area.

10 Technical Services Information

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



RedGard® Waterproofing and Crack Prevention Membrane

Coverage

| Size | Coverage |
|--|-----------------------|
| RedGard as Crack Prevention Membrane: | |
| 1 Gallon (3.78 L) | 100 sq. ft. (9.3 M2) |
| 3.5 Gallon (13.2 L) | 350 sq. ft. (32.5 M2) |
| RedGard as Crack Prevention Membrane meeting ANSI A118.12 | |
| 1 Gallon (3.78 L) | 25 sq. ft. (2.3 M2) |
| 3.5 Gallon (13.2 L) | 88 sq. ft. (8.2 M M2) |
| RedGard as Waterproof Membrane: | |
| 1 Gallon (3.78 L) | 55 sq. ft. (5.1 M2) |
| 3.5 Gallon (13.2 L) | 192 sq. ft. (17.8 M2) |
| RedGard as IAPMO Pan Liner meeting ANSI A118.10: | |
| 1 Gallon (3.78 L) | 40 sq. ft. (3.7 M2) |
| 3.5 Gallon (13.2 L) | 140 sq. ft. (13 M2) |

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



PROFLEX

MSC

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1. PRODUCT NAME

MSC (MEGA SOUND CONTROL)

2. MANUFACTURER

PROFLEX® Products, Inc.

1603 Grove Ave.

Haines City, FL 33122

Telephone: 863-937-9623

Toll Free: 877-577-6353

Fax: 863-937-9624

Internet: www.proflex.us



3. PRODUCT DESCRIPTION

PROFLEX® MSC is a 90 mil composite underlayment consisting of a rubberized membrane laminated to a high strength reinforcing fabric on the face and a release sheet on the adhesive side.

Uses

PROFLEX® MSC is specially designed to be used under approved thinsets, mortars, and adhesives for interior and exterior applications of ceramic tile, stone, and brick, and for interior applications of wood flooring to eliminate the transmission of cracks and sound. Other applications also may be suitable. Contact Technical Support for further information. To eliminate cracks in finished floor work, the product should be applied to the entire substrate prior to the installation of the finished flooring.

Not intended for use around pools.

Advantages

- Easy and fast to install with standard tools
- Ready for tiling immediately after installation
- Crack and joint isolation up to 3/8"
- Moisture Vapor Protection up to 5#-1000sqft-24hr CaCl test (see installation instructions)
- Sound Control

Suitable Substrates

- Concrete (Poured, Prestressed, Precast)
- Cured Mortar beds
- Patching and Self Leveling Compounds
- Lightweight Gypsum Concrete (Gyp-Crete®)
- Exterior-grade plywood
- Cement backer-board
- Other substrates, contact Technical Support

Packaging

100 sq. ft/roll, 20 rolls per pallet

Shelf-Life

PROFLEX® MSC: Factory-sealed containers of this product are to be of first quality for one (1) year if stored at temperatures between 40°F and 95°F

Companion Products

PR-series Primer

PIB - Perimeter Isolation Barrier

Cautions and Limitations

- Substrate must be primed with PROFLEX® Primer.
- PROFLEX® shall be installed in compliance with the most current edition of the following publications: PROFLEX® Installation Instructions, ANSI (American National Standards Institute) TCNA (Tile Council of North America) handbook for ceramic tile Installation, MIA (Marble Institute of America) Dimension Stone Design Manual, NWFA (National Wood Flooring Association).
- PROFLEX® requires consultation with your selected manufacturer of Thinsets, Mortars, and adhesives to ensure selected product is suitable for use with PROFLEX® elastomeric membranes. **Mortars should be at a minimum ANSI 118.11 specification.**
- Not for use over expansion joints (structural design joints) or structural (out-of-plane) movement cracks. Use of this product does not eliminate the need for movement joints, including perimeter joints within the tiled surface. Perimeter expansion of 1/4" minimum must be maintained for warranty. Movement joints shall be installed within the industry standards in the publications listed in point 2 of the Cautions and Limitations section of this publication.
- Not recommended for use on concrete floors when hydrostatic pressure is present. PROFLEX® recommends testing the substrate prior to installation of product using a Calcium-Chloride (CaCl) test kit, and /or concrete test for relative humidity (Rh) Impervious tile (less than 0.5% absorption) may require a 48- hour cure prior to grouting. The mortar will be sandwiched between two non absorptive materials and will require additional cure time.
- Cooler weather will also increase set time.
- Protect Primers from freezing.

4. TECHNICAL DATA

| Property | Test Method | Result |
|---------------------|-------------|-----------|
| Total Thickness | | 90 mil. |
| Fabric Thickness | | 6 mil. |
| Elongation | ASTM D882 | 350% min. |
| Tensile MD | ASTM D1682 | 1270 psi |
| Pliability | ASTM D146 | Pass-25 |
| Adhesion to Plywood | ASTM D1790 | 8 lb/in. |

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| | | |
|--------------------------------|---------------------------|-----------|
| Adhesion to Primed Concrete | ASTM D903 | 10 lb/in. |
| Impact Insulation Class (IIC) | ASTM E989-89 ASTM E492-90 | 72* |
| Sound Transmission Class (STC) | ASTM E90-02 | 72* |

* Sound testing performed as to ASTM E90-02, ASTM E989-89, ASTM E492-90. Test conducted on 8" concrete slab with a suspended drywall ceiling.

APPLICABLE STANDARDS ASTM International (ASTM) ANSI American National Standard Institute

- ASTM C627 "A standard test method for evaluating ceramic floor tile installation systems using the robinson-type floor tester: rated "extra heavy".
- ANSI 118.12 "ANSI specifications for crack isolation membranes for thin-set ceramic tile and dimension stone installation. Meets or exceeds ANSI 118.12.
- ANSI 118.10 "ANSI specification for load bearing , bonded, waterproof membranes for thin-set ceramic tile and dimension stone installation meets or exceeds ANSI 118.10.

5. INSTALLATION

Applications Instructions

PROFLEX® elastomeric membranes, when properly installed in accordance with the following installation guidelines, will provide years of protection for finish flooring installations. In addition to these instructions, installers shall also refer to the most current edition of the following publications: American National Standards Institute (ANSI) publications. Tile Council of North America (TCNA) Handbook for Ceramic Tile Installations The Marble Institute of America (MIA) Dimension Stone Design Manual, NWFA (National Wood Flooring Association). Manufacturer's instructions of selected setting materials, substrates, sub-floors, or other manufacturers being used in the total, or any part of, an installed flooring system with PROFLEX® Consult your selected manufacturer of these above mentioned components to ensure selected products are compatible with PROFLEX® elastomeric membranes.

Exclusions

PROFLEX® should not be installed without contacting technical support for including, but not limited to, the following conditions: Expansion or structural design joints in concrete slabs, Out of plane, or structural movement cracks. Horizontal cracks that exceed 3/8" (10mm) Areas where moisture vapor or hydrostatic pressure exceeds 5#-1000sqft-24hrs, as tested using a Calcium Chloride (CaCl) test. Substrates installed not in compliance with industry standards. Substrates that have not been approved by PROFLEX® in this document, or by written authorization from a PROFLEX® representative.

Surface Preparation of Selected Substrates

Concrete Substrates shall be in place a minimum of 28 days. Concrete shall be installed in compliance with industry standards, and concrete manufacturer's instructions. The surface shall have a smooth finish and be free from voids, sharp protrusions, and loose aggregate. Substrate temperatures should be between 40oF and 90oF Concrete shall be structurally sound, dry, clean, and free of dirt, oils, grease, paint, concrete sealers or curing compounds, cement laitance, and other similar bond inhibiting materials. Rough or uneven surfaces should be made smooth with a Latex Portland cement underlayment to provide a wood float or better finish. Do not level with asphalt based products. Concrete should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium-Chloride (CaCl) test. Consult technical support if test readings indicate a reading greater than 5 # per 1000 sqft-

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24hours. Existing joint openings larger than 3/16" must be prepared and filled with an approved caulking or sealant prior to the application of PROFLEX®.

Patching, Self Leveling Compounds, Lightweight Gypsum Concrete (Gyp-Crete®) shall cured to the minimum manufactures requirement for moisture sensitive installations. The surface shall have a smooth finish and be free from voids, sharp protrusions, and loose aggregate. Substrate temperatures should be between 40oF and 90oF and shall be structurally sound, dry, clean, and free of dirt, oils, grease, paint, sealers or curing compounds.

Plywood must be a minimum of two (2) layers 5/8" exterior grade plywood. Plywood shall be securely fastened in accordance with industry standards. Maintain a 1/8" gap between plywood sheets and all surfaces they abut. Joints in the top layer should be offset from the joints on the bottom layer. It is the responsibility of the installer to verify the deflection of the floor structure and sub-floor does not exceed L/360 of the span under combined live or dead loads. The substrate should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium-Chloride (CaCl) test. Consult technical support if test readings indicate a reading greater than 5 # per 1000 sqft-24hours

Other Substrates

All other substrates and or sub-flooring systems shall be installed in a manner approved by both the product manufacturer and using an appropriate installation method as recommended in the most current edition of the publications mentioned in page 1, of Application Instructions. Concrete Patching and Leveling compounds should be applied only after a consultation with PROFLEX® technical staff. (1-877-577-6353) or at technical@proflex.us. Substrates should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium-Chloride (CaCl) test. Consult technical support if test readings indicate a reading greater than 5 # per 1000 sqft-24hours.

Priming

For floors, interior applications, Ceramic Tile, Porcelain Tile, Marble or Stone, engineered wood, hardwood floors.

Priming: Stir or shake PROFLEX® Primer thoroughly. Apply primer with a long nap roller, brush, or spray application. Apply evenly at 300-400 sq.ft. per gallon, with 100% surface coverage. The PROFLEX® Primer has dried satisfactorily when the surface is tacky, but does not transfer when touched. (Note: The primer does not serve as an adhesive, over-application of the product will increase drying times and may compromise the overall bondability of PROFLEX® membranes to the substrate)

Membrane Application

If PROFLEX® is to be used as a vapor barrier, apply Rubber Seam Tape (PROFLEX® RST) beneath all seams, after the surface has been primed. The 4" rubber seam tape should be centered under every seam. The RST will need to be pre-positioned and installed prior to the installation of the PROFLEX® membrane. Place PROFLEX® Membrane with release paper still attached over the area to be treated. Unroll the membrane and cut leaving a 2"-3" excess at one end. *PROFLEX® Hydra-Seal may be used in lieu of the RST at seams for waterproofing applications. Hydra-Seal and mesh may also be used with the membranes for flashing up the sides of the walls to the top of the membrane.*

Method 1: Fold membrane lengthwise. Peel ½ of the release paper from the leading edge of the membrane and slowly pull the release paper toward you, exposing the tacky surface of the membrane and carefully attaching the membrane onto the primed surface, avoiding wrinkles and bubbles.

Method 2: Roll up ½ of the membrane, leaving the other half unrolled. Cut the release paper from the portion of the membrane and slowly pull the release paper toward you, exposing the tacky surface of the membrane and carefully attaching the membrane onto the primed surface, avoiding wrinkles and bubbles. Repeat the procedure with the unrolled portion of the membrane.

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Additional Instructions on membrane application

For full coverage application, carefully butt edges (overlapping will cause the floor to become uneven, but not affect performance). Immediately after installation press membrane into place working out from the center of the membrane by applying heavy pressure with the flat side of the trowel, or use a 75-100# roller. Protect exposed membrane and companion products from dirt, traffic, and harmful elements until flooring is installed, grouted, and cured.

Setting Materials

All mortars and thin-sets must meet or exceed ANSI 118.11. Urethane Wood adhesives may be used for wood installations, consult manufacturer for product suitability and approval for use with PROFLEX® elastomeric membranes. Consult selected mortar or thinset manufacturer for product suitability and approval for use with PROFLEX® elastomeric membranes. Use appropriate notched trowel for application of setting materials in compliance with ANSI, TCNA, MIA, NWFA, and setting materials guidelines and recommendations. Visit our website at www.proflex.us and click to our link listing our approved setting materials that have been approved for use.

Finish Surface Installation

Apply finish flooring in compliance with the publications listed in *Applications Instructions*, for methods of installation over crack-isolation membranes. Do not install any defective, damaged, or any finish flooring surface not for its intended use. The installation of this product does not eliminate the need for movement joints, including perimeter joints with a tiled surface. Perimeter expansion of ¼" must be maintained at all times. Use PROFLEX® PIB (Perimeter Isolation Barrier) to assist in maintaining the expansion gap. Consult the TCNA handbook for other movement joint applications EJ171. The product is not for use over expansion joints, or structural (out-of-plane) movement cracks.

6. AVAILABILITY

PROFLEX® Products are available nationwide.

To locate PROFLEX® products in your area, please contact:

Phone: 877-577-6353

Website: www.proflex.us

7. WARRANTY

PROFLEX® Products, Inc. offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical services at 877-577-6353 or visiting www.proflex.us

8. MAINTENANCE

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the Technical Support

Toll Free: 877-577-6353

Fax: 863-937-9624

Technical and safety literature: To acquire technical and safety literature, please visit our website www.proflex.us

10. FILING SYSTEM

PROFLEX[®]

MSC

JAN 2023
Division 9

2023-10-09

