



LATICRETE® 9235 Waterproofing Membrane



PRODUCT DESCRIPTION

LATICRETE 9235 Waterproofing Membrane is a thin, loadbearing waterproofing designed specifically for the special requirements of ceramic tile, stone and brick installations. A self-curing liquid rubber polymer and a reinforcing fabric are quickly applied to form a flexible, seamless waterproof membrane that bonds to a wide variety of substrates.

Advantages

- Swimming pools, fountains & water features
- Shower pans, stalls, "hop-ups" & tub surrounds
- Bathrooms & laundries (industrial, commercial & residential)
- Spas, hot tubs
- Kitchens & Food Processing Areas
- Terraces & balconies over unoccupied spaces
- Countertops
- Facades
- Steam rooms (when used in conjunction with a vapor barrier)
- Inhibits stain causing mold and mildew growth in the substrate with Microban® antimicrobial product protection
- Safe - no solvents and non-flammable
- Interior & exterior use
- Vertical & horizontal surfaces (including ceilings)
- Thin - only 0.02" (0.5mm) thick when cured
- Anti-fracture protection of up to 1/8" (3mm) over shrinkage and other non-structural cracks
- Load bearing - "Extra Heavy" service rating per ASTM C627/TCA
- Cold applied – no heating, kettles or fumes

- Applies quickly with a paint brush or roller - no special mixing or application equipment needed
- Fast cure - normally ready in hours for finishes
- Install tile, brick and stone directly onto membrane
- Resistant to brine, urine, sugar & other reagents
- Easy cleanup – just use water while fresh
- Protects concrete & reinforcing steel from corrosion

Suitable Substrates

- Concrete
- Exterior Grade Plywood*
- Cement Mortar Beds
- Gypsum Wallboard*
- Cement Backer Board***
- Cement Plaster
- Ceramic Tile and Stone**
- Concrete & Brick Masonry
- Cement Terrazzo**

**Interior Applications Only;*

*** If skim coated with a LATICRETE Latex Thin-Set Mortar;*

****Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.*

Packaging

20 ltr pail

Colour - Black

Approximate Coverage

Approximately 225-250 sft per 20 ltr pail

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >32°F (0 °C) and <110°F (43 °C).

Limitations

- Do *not* use as a primary roofing membrane over occupied space
- Do *not* use over expansion joints, structural cracks or cracks with vertical differential movement
- Do *not* use over cracks >1/8" (3mm) in width
- Do *not* use as a vapor barrier (especially in steam rooms)
- Do *not* expose unprotected membrane to sun or weather for >30 days
- Do *not* expose to negative hydrostatic pressure, excessive vapor transmission, rubber solvents or ketones
- Must be covered with ceramic tile, stone, brick, concrete, screeds, terrazzo or other traffic-bearing course. Use protection board for temporary cover.
- Obtain approval by local building code authority before using product in shower pan applications

- Do not install directly over single layer wood floors, plywood tubs/showers/ fountains or similar constructs

Cautions

Consult MSDS for more safety information.

- Surface temperature must be >45°F (10°C) during installation and for 24 hours thereafter
- Protect from traffic or water until fully cured
- Allow membrane to cure fully (typically 7days @ 70°F/21 °C) before flood testing; flood test prior to applying tile or stone
- Cold weather will require a longer cure time

TECHNICAL DATA

Applicable Standards

- ANSI A118.10-1999
- Proposed ANSI A118.12
- Germany Tile Association (ZDB) 02-1988
- FHA4900.1 Section 615.5
- Federal Specification TT-C-00555

Approvals

- ICBO Evaluation Service Report #5306
- IAPMO/Uniform Plumbing Code File No. 3524 (shower pan liner)
- Michigan State Construction Code Commission Certificate of Acceptability No. 1234 P-A
- Oregon Building Codes Agency Ruling No. 92-12P
- Allegheny County Plumbing Advisory Board Article XV
- Los Angeles Board of Building And Safety Commissioners Approval M-980031
- City of Orlando - Certificate of Acceptability
- Singapore Institute of Standards and Industrial Research

Physical Properties

Physical Property	Test Method	LATICRETE® 9235 Waterproofing Membrane
Fungus Resistance	ANSI A118.10-1999 (M-4.1)	Pass
Seam Strength	ANSI A118.10-1999 (M-4.2)	>95lbs/inch width (>166.4 N/cm width)
Breaking Strength	ANSI A118.10-1999 (M-4.3)	2400lbs/in ² (16.5MPa)
Dimensional Stability	ANSI A118.10-1999 (M-4.4)	No Change
Waterproofness	ANSI A118.10-1999 (M-4.5)	Pass
Shear Strength	ANSI A118.10-1999 (M-5.6)	280lbs/in ² (1.9MPa)
System	ANSI A118.10-	Cycles 1-14

Performance	1999 (M-6); ASTM C627; TCA Rating-	"EXTRA HEAVY"
Water Permeance	Fed. Spec. TT-C-00555 (Mod.)	Excellent (E)
Water Vapor Transmission	Water Vapor Transmission	2.4grains/h•ft ² (1.6g/h •m ²)
Water Vapor Permeance	ASTM E96-80 (Inverted Water Method)	2.9perms (165.5ng/Pa •s •m ²)
Elongation	ASTM D751-89	20 - 30%
Hydrostatic Resistance	ASTM D751 (Modified)	120lbs/in ² (827.4kPa)
Thickness (+/-)	LIL 1013-92	0.02" (0.5mm)
Chemical Resistance	Full Immersion 90 day	Brine Solution NA Sugar Solution NA Milk NA 10% Citric Acid NA 3.5% HCl Acid NA 5% Acetic Acid NA 1% Alkali NA Toluol Softens Urine NA CaCl ₂ NA
Service Temperature	LIL 1016-92	-20° to 280°F (-29° to 138 °C)
Crack Suppression	ZDB 02-1988	Pass (>0.4mm)

INSTALLATION

Surface Preparation

Surface temperature must be 45-90°F (7-32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, loose/peeling paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough or uneven concrete smooth to a wood float or better finish with a LATICRETE Underlayment. Do not level with gypsum or asphalt based products. Maximum deviation in plane must not exceed ¼" in 10ft (6mm in 3m) with no more than 1/16". 1ft. (1.5mm in 0.3m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water - installation may be made on a damp surface. New concrete slabs shall be damp cured and a minimum of 14 days old before application.

- Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length;
- Minimum construction for interior plywood floors:

SUBFLOOR: 5/8" (15mm) thick exterior grade plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400mm) o.c. maximum; fasten plywood 6" (150mm) o.c. along sheet ends and 8" (200mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3mm) between sheet

ends and ¼" (6mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive; **UNDERLAYMENT:** 5/8" (15mm) thick exterior grade plywood fastened 6" (150mm) o.c. along sheet ends and 8" (200mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3mm) to ¼" (6mm) between sheets and ¼" (6mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive.

3. DO NOT bond to particle board, luan, Masonite® or hardwood surfaces. **For white and light colored marbles use LATICRETE 220 Marble and Granite Mortar WHITE. For green and moisture sensitive marble, agglomerates and resin backed stones use LATAPOXY®300 Epoxy Adhesive, refer to Data Sheet 312.0.**

Pre-Treat Cracks & Joints

Apply a liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid approximately 8" (200 mm) wide over substrate cracks, cold joints, control joints and board joints using a paint brush or roller (heavy napped roller cover). Place 6" (150 mm) wide LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric into the wet LATICRETE 9235 Waterproofing Membrane Liquid. Press down on LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric with brush or roller until the LATICRETE 9235 Waterproofing Membrane Liquid "bleeds" through from below. Then apply another liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid over the entire surface of the LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric.

Pre-Treat Coves, Corners & Seams

Apply a liberal coat of LATICRETE® 9235 Waterproofing Membrane Liquid approximately 8" (200 mm) wide over substrate coves, corners, seams, joints and changes in plane using a paint brush or roller (heavy napped roller cover). Fold 6" (15cm) wide LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric in half and place it into the coat of wet LATICRETE 9235 Waterproofing Membrane Liquid. Flash LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric 3" (75 mm) up walls and other vertical surfaces. Press down on LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric with brush or roller until the LATICRETE 9235 Waterproofing Membrane Liquid "bleeds" through from below. Then apply another liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid over the entire surface of the LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric.

Pre-Treat Drains

Drains must be of the clamping ring type, with weepers and as per ANSI A112.21.1. Cut a square of LATICRETE 9235 waterproofing Membrane Reinforcing Fabric approximately 38" x 38" (965 mm x 965 mm). In the center of the LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric square, cut a hole that matches the diameter of the drain throat as

closely as possible. Apply a liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid around and over the bottom half of drain clamping ring. Center the circular cutout over the drain throat and imbed the LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric square into the LATICRETE 9235 Waterproofing Membrane Liquid, encircling the drain throat as closely as possible. Cover with a second coat of LATICRETE 9235 Waterproofing Membrane Liquid. When dry, apply a LATICRETE Latasil Tile and Stone Sealant bead where the LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric square cutout meets the drain throat. Install top half of drain clamping ring.

Pre-Treat Penetrations

Pack any gaps around pipes, lights or other penetrations with a compressible backer rod and LATICRETE Latasil Tile and Stone Sealant. Apply a liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid around penetration opening. Imbed pieces of 6" (150 mm) wide LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric into LATICRETE 9235 Waterproofing Membrane Liquid. Cover with a second coat of LATICRETE 9235 Waterproofing Membrane Liquid. When dry, seal flashing with LATICRETE Latasil Tile and Stone Sealant.

Main Application

Allow any pre-treated areas to dry to the touch. Apply a liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid with brush or roller over substrate including pre-treated areas. Lay LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric into wet LATICRETE 9235 Waterproofing Membrane Liquid and smooth out any wrinkles. Press LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric with brush or roller until LATICRETE 9235 Waterproofing Membrane Liquid "bleeds" through to surface. Lap seams approximately 2" (50mm). Flash LATICRETE 9235 Waterproofing Membrane up over pre-treated coves and corners, so such areas have two layers of LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric. Apply another liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid over LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric to saturate it. Let topcoat dry to the touch, approximately 1-3 hours @ 70° F (21 °C) and 50% RH. Make another liberal application of LATICRETE 9235 Waterproofing Membrane Liquid to seal entire surface. When last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects. Use additional LATICRETE 9235 Waterproofing Membrane Liquid to seal defects.

Interior CBU & Gypsum Wallboard

LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric and the third coat of LATICRETE 9235 Waterproofing Membrane Liquid may be omitted from main applications over interior walls and other vertical surfaces made with cementitious backer units (CBU) or gypsum wallboard. However, coves, corners, seams and board joints must be pretreated as described above.

Expansion Joints

Apply a liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid around and down into substrate expansion joints. Loop 6" (150 mm) wide LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric down into joint. Cover with a second layer of LATICRETE 9235 Waterproofing Membrane Liquid.

^ Refer to *Limitations* section for unacceptable cracks;
^^ wet coat thickness is 20-30 mils, 0.02-0.03", 0.5-0.8mm; use wet film gauge to check thickness; consumption per coat is ~0.01 gal/ft² (~0.4 l/m²); coverage per coat is ~100 ft²/gal (~2.5 m²/l);

Protection

Provide protection for newly installed membrane, even if covered with a thin bed ceramic tile, stone or brick installation, against exposure to rain or other water for a minimum of 5 days @ 70°F (21°C) and 50% RH.

Flood Testing

Allow membrane to cure fully before flood testing, typically 7 days @ 70°F (21°C) and 50% RH. Cold and/or wet conditions will require a longer curing time.

Installing Finishes

Once LATICRETE 9235 Waterproofing Membrane has dried to the touch, ceramic tile, stone or brick may be installed by the thin bed method with a LATICRETE Latex Thin-Set Mortar.

Allow LATICRETE 9235 Waterproofing Membrane to cure 7 days @ 70°F (21°C) and 50% RH before covering with concrete, thick bed mortar, screeds, toppings, coatings, epoxy adhesives, terrazzo or moisture sensitive resilient or wood flooring. Do not use solvent-based adhesives directly on LATICRETE 9235 Waterproofing Membrane.

Drains & Penetrations

Allow for a minimum ¼" (6 mm) space between drains, pipes, lights or other penetrations and surrounding ceramic tile, stone or brick. Use LATICRETE Latasil Tile and Stone Sealant and foam backer rod to seal space - do not use a grout or joint filler mortar.

Control Joints

Ceramic tile, stone and brick installations must include sealant filled joints over any control joints in the substrate. However, the sealant filled joints can be offset horizontally, by as much as one tile width from the substrate control joint location, coincide with the grout joint pattern.

Expansion Joints

Ceramic tile, stone and brick installations must include expansion joints at coves, corners, other changes in substrate plane and over any expansion joints in the substrate.

Expansion joints in ceramic tile, stone or brickwork are also required at perimeters, at restraining surfaces, at penetrations and at the intervals described in Tile Council of America, Inc. (TCA) Handbook Installation Method EJ171. Use LATICRETE® Latasil Tile and Stone Sealant and backer rod.

Cleaning

While wet, LATICRETE 9235 Waterproofing Membrane Liquid can be washed from tools with water.

AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® materials are available worldwide. For distributor information, call:
TELEPHONE: +91-40-30413100
FAX: +91-40-23378784
e-mail: contact@myklaticrete.com

Cost

Contact a LATICRETE/LATAPOXY Distributor in your area

MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

WARRANTY

MYK LATICRETE India warrants that LATICRETE 9235 waterproofing Membrane is free from manufacturing defects and will not break down deteriorate or disintegrate under normal usage for a period of one (1) Year from date of purchase subject to the terms and conditions stated in LATICRETE Product Warranty

TECHNICAL SERVICES

Technical assistance

Information is available by calling the MYK LATICRETE Technical Services at:
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