



# LATICRETE® 9235 Waterproofing Membrane

Data Sheet 236aus.0

## 1. PRODUCT NAME

LATICRETE® 9235 Waterproofing Membrane

## 2. MANUFACTURER

LATICRETE Pty Ltd.  
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Footscray West. VIC. 3012.  
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Toll Free: 1800331012  
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Internet: www.laticrete.com

## 3. PRODUCT DESCRIPTION

LATICRETE 9235 Waterproofing Membrane is a thin, load-bearing waterproofing designed specifically for, but not limited to, 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.

### Uses

- 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
- Counter Tops
- Facades
- Steam Rooms (when used in conjunction with a vapor barrier)

### Advantages

- Safe - no solvents and non-flammable. Low VOC's.
- Interior & exterior use
- Vertical & horizontal surfaces (including ceilings)
- Thin - only 0.5mm thick when cured
- 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
- Cement Mortar Beds
- Cement Backer Board\*\*\*
- Cement Plaster
- Concrete & Brick Masonry
- Exterior Grade Plywood\*
- Gypsum Wallboard\*
- Ceramic Tile and Stone\*\*
- 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

**Full Unit** (36 Full Units/pallet) consisting of:

- 1 x 23 litre pail liquid
- 1 x 25 m<sup>2</sup> roll fabric 1 m wide.
- 1 x 25 m long, 150 mm wide.

**Mini Unit** :

- 1 x 7.6 litre jug liquid;
- 1 x 150mm x 23m roll fabric

### Color

Black

### Approximate Coverage

Full Unit	Mini Unit
27.8 m <sup>2</sup>	9.3 m <sup>2</sup>

### Shelf Life

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

### Limitations

- Do not use over expansion joints, structural cracks or cracks with vertical differential movement
- Do not use over cracks >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. For temporary cover, use protection board.
- Do not install directly over single layer wood floors, plywood tubs/showers/ fountains or similar constructs

**Cautions**

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

**4. TECHNICAL DATA**

**Applicable Standards**

- AS 3740-1994
- ANSI A118.10-1999
- Germany Tile Association (ZDB) 02-1988
- FHA4900.1 Section 615.5
- Federal Specification TT-C-00555

**Approvals**

- CSIRO Appraisals Technical Assessment 167
- 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

<b>Physical Properties</b>		
<b>Physical Property</b>	<b>Test Method</b>	<b>LATICRETE®9235 Waterproof Membrane</b>
Fungus Resistance	ANSI A118.10-1999 (M-4.1)	Pass
Seam Strength	ANSI A118.10-1999 (M-4.2)	>166.4 N/cm width
Breaking Strength	ANSI A118.10-1999 (M-4.3)	16.5 MPa
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)	1.9 MPa
System Performance	ANSI A118.10-1999 (M-6); ASTM C627; TCA Rating	Cycles 1-14 "EXTRA HEAVY"
Water Permeance	Fed. Spec. TT-C-00555 (Mod.)	Excellent (E)
Water Vapor Transmission	ASTM E96-80 (Inverted Water Method)	2.4 grains/h•ft <sup>2</sup> (1.6 g/h•m <sup>2</sup> )
Water Vapor Permeance	ASTM E96-80 (Inverted Water Method)	2.9 perms (165.5 ng/Pa•s•m <sup>2</sup> )
Elongation	ASTM D751-89	20 - 30%
<b>Physical</b>		

Data Sheets are subject to change without notice.

<b>Properties</b>		
<b>Physical Property</b>	<b>Test Method</b>	<b>LATICRETE®9235 Waterproof Membrane</b>
Hydrostatic Resistance	ASTM D751 (Modified)	827.4 kPa
Thickness (+/-)	LIL 1013-92	0.5 mm
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 CaCl2 NA
Service Temperature	LIL 1016-92	-29° to 138° C
Crack Suppression	ZDB 02-1988	Pass (>0.4 mm)
* Tile Council of America Service Rating Categories		

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

**5. INSTALLATION**

The following overview provides basic installation information. Refer to Data Sheet WPAF.5 (included in unit) for complete instructions or visit [www.laticrete.com](http://www.laticrete.com).

**Surface Preparation**

Surface temperature must be 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 6 mm in 3 m with no more than 1.5 mm in 0.3 m 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 a minimum of 14 days old before application. Maximum amount of moisture in the concrete substrate should not exceed 75% relative humidity as measured with moisture probes.

1. 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;

2. **DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces.

**Pre-Treat Cracks & Joints**

Apply a liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid approximately 200 mm wide over substrate cracks, cold joints, control joints and board joints using a paint brush or roller (heavy napped roller

cover). Place 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**

In residential applications, install bond breaker to coves and internal corners as per AS3740. Apply a liberal coat<sup>^^</sup> of LATICRETE 9235 Waterproofing Membrane Liquid approximately 200 mm wide over substrate coves, corners, seams, joints and changes in plane using a paint brush or roller (heavy napped roller cover). Fold 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 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<sup>®</sup> 9235 Waterproofing Membrane Liquid over the entire surface of the LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric.

### **Pre-Treat Drains**

Drains 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 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 Silicone Sealant bead where the LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric square cutout meets the drain throat. Install top half of drain clamping ring. Contact Laticrete for Epoxy Bonded Method.

### **Pre-Treat Penetrations**

Pack any gaps around pipes, lights or other penetrations with a compressible backer rod and the appropriate paintable urethane or silicone sealer. Apply a liberal coat of LATICRETE 9235 Waterproofing Membrane Liquid around penetration opening. Imbed pieces of 150 mm wide LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric into LATICRETE 9235 Waterproofing Membrane Liquid. Data Sheets are subject to change without notice.

Cover with a second coat of LATICRETE 9235 Waterproofing Membrane Liquid. When dry, seal flashing with the appropriate LATICRETE Latasil Silicone Sealant.

### **Main Application**

Allow any pre-treated areas to dry to the touch. Apply a liberal coat<sup>^^</sup> 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 50 mm. 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 @ 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 pre-treated as described above.

### **Expansion Joints**

Apply a liberal coat<sup>^^</sup> of LATICRETE 9235 Waterproofing Membrane Liquid around and down into substrate expansion joints. Loop 150 mm wide LATICRETE 9235 Waterproofing Membrane Reinforcing Fabric down into joint. Cover with a second layer of LATICRETE 9235 Waterproofing Membrane Liquid.

<sup>^</sup> refer to *Limitations* section for unacceptable cracks;

<sup>^^</sup> wet coat thickness is 20-30 mils, 0.5-0.8 mm; use wet film gauge to check thickness; consumption per coat is ~0.4 l/m<sup>2</sup>; coverage per coat is ~2.5 m<sup>2</sup>/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 @ 21°C and 50% RH.

### ***Flood Testing***

Allow membrane to cure fully before flood testing, typically 7 days @ 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 @ 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 6 mm space between drains, pipes, lights or other penetrations and surrounding ceramic tile, stone or brick. Use the appropriate LATICRETE Latasil Silicone 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, to 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 by the Australian Standards for waterproofing and tile fixing. Use the appropriate LATICRETE® Latasil Silicone Sealant and backer rod.

### ***Cleaning***

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

## **6. AVAILABILITY AND COST**

### ***Availability***

LATICRETE and LATAPOXY® materials are available worldwide. For distributor information:

Toll Free: 1800331012

Telephone: 0399336111

[www.laticrete.com](http://www.laticrete.com)

### ***Cost***

Contact a LATICRETE/LATAPOXY Distributor in your area.

## **7. WARRANTY**

LATICRETE 9235 Waterproofing Membrane is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of seven (7) years from date of purchase subject to the terms and conditions stated in Data Sheet 230.7Paus, LATICRETE Product Warranty. In addition, when used as a component of a LATICRETE System Installation, LATICRETE 9235 Waterproofing Membrane is warranted for a period of ten (10) years from date of purchase subject to the terms and conditions stated in Data Sheet 230.10Saus, LATICRETE System Warranty.

## **8. 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.

## **9. TECHNICAL SERVICES**

### ***Technical and safety literature***

Information is available by calling:

Toll Free: 1800331012

Telephone: 03 99336111

FAX: 03 99336199