



Blue 92 Anti-Fracture

DS-647.0-0811



1. PRODUCT NAME

LATICRETE® Blue 92 Anti-Fracture Membrane

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

LATICRETE Blue 92 Anti-Fracture Membrane is a two-part system consisting of a liquid rubber and reinforcing fabric. When cured, it forms a highly flexible membrane. While the thin bed method of tile installation provides many advantages, this method can be affected by problems with shrinkage cracking in concrete and other types of substrates. Cracks can telegraph through the tile and/or grout joints. To reduce or eliminate cracks in tile work, a flexible membrane should be applied to the cracked substrate prior to the installations of ceramic tile, marble and stone.

Uses

- For interior or exterior use on floors and walls whenever hairline cracking or “spiderwebbing” occurs in the substrate.
- For use over shrinkage and other non-structural cracks up to 1/8" (3 mm).
- Typical applications are over concrete slabs (suspended or on grade) in malls, lobbies and residential applications under ceramic tile, marble and stone.
- Use to cover joints in plywood underlayments, cement backer boards, and concrete masonry on floors and walls.
- Also use over concrete floors and underlayments with radiant heating systems.

Advantages

- Reduces crack transmission in ceramic tile, thin brick, marble and stone installed using thin-set method. Also ideal for use under cement based or resin Terrazzo.
- Inhibits the growth of stain causing mold and mildew with Microban® antimicrobial protection.
- Thin—adds no appreciable thickness to floor construction; install tile with LATICRETE Polymer Fortified Thin-Set Mortar directly to cured membrane.
- “Extra Heavy Service” rating per TCNA performance levels (RE: ASTM C627 Robinson Floor Test).
- Easy to Apply—goes on quickly with paint brush or roller; no mixing or special equipment required.
- Fast Cure—dries in a few hours to receive finished surfacing.
- Easy Cleanup—cleans with water while fresh.
- Safe—no solvents or harsh fumes, non-flammable.

Suitable Substrates

- Exterior glue plywood*
- Concrete
- Mortar beds, renders
- Cement backer board**
- Cement terrazzo***
- Ceramic Tile and Stone***
- Concrete masonry

* Interior applications only.

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

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

Packaging

Full Unit consists of:

- 5 US gallon (19 l) pail liquid
- 1-roll reinforcing fabric: 38" (97 cm) wide, 95 ft (29 m) long
- 1-roll reinforcing fabric: 6" (15 cm) wide, 75 ft (23 m) long

Crack Suppression Kit (1/4 Unit) contains:

- 2 gallon (7.66 l) jug of liquid, 15" (37.5 cm) wide roll

Coverage

Approximately 300 ft² (28 m²) at 20 mil (0.5 mm) thickness per full unit.
Approximately 75 linear ft (23 linear meters) per crack suppression kit.

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

- LATICRETE® Blue 92 Anti-Fracture Membrane is not intended for use as a waterproofing membrane. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 **FILING SYSTEMS**).
- DO NOT** use over expansion joints, structural cracks or areas with differential vertical movement.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes.
- Apply to surfaces above 45°F (7°C). Maintain a constant temperature greater than 45°F (7°C) for 24 hours after installation.
- Not intended as a wearing surface. Must be covered with tile, or other traffic bearing material.
- DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces.

Cautions

- During cold weather, protect finished work from traffic until fully cured.
- For white and light-colored marbles use a white LATICRETE Mortar.
- For green resin backed agglomerates and moisture sensitive marbles, use LATAPOXY® 300 Adhesive. Refer to Data Sheet 633.o.
- Protect freshly installed membrane from water exposure.

4. TECHNICAL DATA

VOC/LEED Product Information



This product has been GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting Products in finished form.

Total VOC Content pounds/gallon (grams/liter) of product in unused form is 0.02 lb/gal (2.39 g/l).

Applicable Standards

ANSI A118.12

Performance Properties

Physical Properties	Test Method	LATICRETE® Blue 92 Anti-Fracture Membrane	ANSI A118.12
System Crack Resistance	ANSI A118.12 5.4	Pass at 1/8 inch (3 mm)	Pass at 1/8 inch (3 mm)
Elongation	ASTM D751-89; 17.1	20-30%	20-30%
Breaking Strength (Cut Strip Method)	ASTM D751-89; 16.1	1700-1900 psi (11.72-13.10 MPa)	1700-1900 psi (11.72-13.10 MPa)
Nominal Dry Thickness	LIL 1013-92	0.020 inch (0.51 mm)	0.020 inch (0.51 mm)
28 day Quarry/Concrete Shear Strength	ANSI A118.12 5.1.5	125-175 psi (0.86-1.6 MPa)	50 psi (0.34 MPa)
Point Load	ANSI A118.12 5.2	3200-3700 lbf (14-16 kN)	1000 lbf (4.4 kN)

Data from report 031219-P-182-176.

Specifications are subject to change without notification. Results shown are typical but reflect test procedure used. Actual field performance will depend on the type of tile/stone used, installation methods and site conditions.

5. INSTALLATION

The following overview provides basic installation information. Refer to Data Sheet WPAF.5 for complete instructions or visit www.laticrete.com.

Preparation

Identify the type of crack in the substrate. **DO NOT** use LATICRETE Blue 92 Anti-Fracture Membrane over structural cracks or other areas with differential vertical movement.

Shrinkage Cracks: Occur during the curing process of the concrete. Typically the movement is horizontal (open and close).

Structural Cracks: Occur from improper design or installations of substructure for load conditions. Typical movement is vertical (up and down). LATICRETE Blue 92 Anti-Fracture Membrane is not intended to bridge joints which experience dynamic movement such as expansion joints and structural cracks. Expansion joints must be carried through the entire tile installation.

Surface Preparation

All surfaces should be between 45°F (7°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds and cement latents. Rough or uneven concrete surfaces should be made smooth with LATICRETE Fortified Portland Cement Underlayment to provide a wood float or better finish. Do not level with gypsum or asphalt based products. Dry, dusty concrete slabs or masonry should be cleaned, dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured and a minimum of 14 days old before application (see membrane instructions WPAF.5 for additional information). All slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m). Skim coat existing ceramic tile and stone with a LATICRETE Latex Thin-Set Mortar.

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. Minimum construction for interior plywood floors.

SUBFLOOR: 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive;

UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) 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. Refer to Technical Data Sheet 152 Bonding Ceramic Tile, Stone or Brick Over Wood Floors.

Application

Pre-treat Cracks: Apply a liberal coat[^] of liquid 8" (20 cm) wide over crack. Embed 6" (15 cm) wide LATICRETE Waterproofing/Anti-Fracture Fabric into first coat of liquid. Liberally apply 2nd coat of liquid[^] to seal LATICRETE Waterproofing/Anti-Fracture Fabric.

Crack Isolation (Partial Coverage) Crack suppression must be applied a minimum of 3 times the width of the tile or stone being installed. The tile installed over the crack cannot be in contact with the concrete.

Follow TCNA Method F125 for the treatment of hairline cracks, shrinkage cracks, and saw cut or control joints: Apply a liberal coat^{^^} of LATICRETE Blue 92 Anti-Fracture Membrane liquid, 8" (200 mm) wide over the using a paint roller or paint brush and immediately apply the 6" (150 mm) wide LATICRETE Waterproofing/Anti-Fracture Fabric into the wet liquid. Press firmly with brush or roller to allow complete "bleed through" of liquid. Immediately

[^] Wet coat thickness is 20 mils, 0.02", 0.5 mm; use wet film gauge to check thickness.

^{^^} Wet coat thickness is 20 mils, 0.02" (0.5-0.8mm); use wet film gauge to check thickness; consumption/coat is approximately 0.01 gal/ft² (0.4 L/m²); coverage/coat is approximately 100 ft²/gal (2.5 m²/l).

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apply a second liberal coat^^ of LATICRETE Blue 92 Anti-Fracture Membrane liquid over the fabric and allow to dry. Apply a liberal coat^^ of LATICRETE Blue 92 Anti-Fracture Membrane to a minimum of three (3) times the width of the tile and immediately apply the LATICRETE Waterproofing/Anti-Fracture Fabric into the wet liquid. Press firmly with brush or roller to allow complete “bleed through” of liquid. Immediately apply another liberal coat^^ of LATICRETE Blue 92 Anti-Fracture Membrane liquid over the fabric and allow to dry. Treat closest joint to crack, saw cut, or cold joint with LATICRETE Latasil™.

Refer to LATICRETE Detail ES-F125 (available www.laticrete.com/ag) and TCNA Method F125 for more information.

Main Membrane Application (Full Coverage): Once surface of crack pre-treatment has dried to the touch, use a wide brush/paint roller to cover substrate with a liberal coat^ of LATICRETE Blue 92 Anti-Fracture Membrane liquid. Cover an area slightly wider than the reinforcing fabric width (>38" [97 cm]). Embed LATICRETE Waterproofing/Anti-Fracture Fabric while liquid is still wet. Press firmly with brush or roller to allow complete “bleed through” of liquid. Apply additional liberal coat^ of LATICRETE Blue 92 Anti-Fracture Membrane liquid to cover/saturate LATICRETE Waterproofing/Anti-Fracture Fabric. Lap LATICRETE Waterproofing/Anti-Fracture Fabric 2" (5 cm) at seams. When final coat of liquid has dried to the touch (2–3 hours), install ceramic tile, brick or stone with a LATICRETE Polymer Fortified Thin-Set Mortar or a LATAPOXY 300 Adhesive. Treat closest joint to cold or saw cut joint LATICRETE Latasil™.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® materials are available worldwide.

For distributor information, call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at www.laticrete.com.

Cost

Contact a LATICRETE/LATAPOXY Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.05: LATICRETE 5 Year 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 assistance

Information is available by calling the LATICRETE Technical Service Hotline: (hours 8:00 AM to 5:30 PM EST):

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

Technical and safety literature

To acquire technical and safety literature, please visit our website at www.laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

DS 230.13:	LATICRETE Product Warranty
DS 230.05:	LATICRETE 5 Year System Warranty
DS 236.0:	LATICRETE 9235 Waterproofing Membrane
DS WPAF.5:	Installation of LATICRETE Membranes
DS 633.0:	LATAPOXY 300 Adhesive
DS 297.0:	LATICRETE 220 Marble & Granite Mortar
DS 6200.1:	LATICRETE Latasil™
TDS 152:	Bonding Ceramic Tile, Stone or Brick Over Wood Floors
DS 663.0:	LATICRETE Hydro Ban™

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