



Crack Suppression Kit

DS-648.0-0314

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

Crack Suppression Kit

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

Crack Suppression Kit consists of liquid rubber and reinforcing fabric packaged for convenient individual treatment of substrate cracks. When cured, it forms a highly flexible membrane that reduces or eliminates crack transmission in tile or stone work.

Uses

- Wherever hairline cracking or “spiderwebbing” occurs in the substrate, including interior or exterior floors and walls
- For use over shrinkage and other non-structural cracks up to 1/8" (3 mm) wide
- Ideal for suspended or on grade concrete slabs in malls, lobbies and residential applications under ceramic tile and stone installed by the thin-bed or bonded thick-bed methods
- Cover joints in plywood, cement backer boards, and concrete masonry on floors and walls
- Also use over concrete floors and underlayments containing radiant heating

Advantages

- Reduces crack transmission in ceramic tile, thin brick and stone
- Contains Microban® anti-microbial protection to inhibit the growth of stain causing mold and mildew in the membrane
- Thin—adds no appreciable thickness to floor construction: install tile with LATICRETE® Latex Thin-Set Mortar directly to cured membrane
- Easy to Apply—goes on quickly with paint brush or roller—no mixing or special equipment required
- Fast Cure—ready in a few hours to receive ceramic tile and stone
- Easy Cleanup—cleans with water while fresh
- Safe—no solvents or harsh fumes, non-flammable
- “Extra Heavy Service” rating per TCNA performance levels (RE: ASTM C627 Robinson Floor Test)

Suitable Substrates

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

* 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

Each Crack Suppression Kit contains:

- 2 gal (7.6 L) jug of Crack Suppression Kit Liquid
- 15" wide x 75 ft long (38 cm x 23 m) roll of Reinforcing Fabric

Coverage

Approximately 75 linear ft (23 m) at 20 mil (0.5 mm) thickness per unit.

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 over expansion joints, structural cracks or areas with differential vertical movement.
- Crack Suppression Kit is not a waterproofing membrane. When a waterproofing membrane is required, use a LATICRETE® Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- 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

- For white and light colored marbles use 220 Marble & Granite Mortar white.
- During cold weather, protect finished work from traffic until fully cured.
- For green, resin-backed agglomerates and moisture sensitive marbles, use LATAPOXY® 300 Adhesive. Refer to Data Sheet 633.0.
- Protect freshly installed membrane from water exposure.

4. TECHNICAL DATA

VOC/LEED Product Information



This product has been certified for Low Chemical Emissions (ULCOM/CGG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

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

Performance properties

Meets ANSI A118.12 specification.

Physical Properties	Test Method	Crack Suppression Kit	ANSI A118.12
System Crack Resistance	ANSI A118.12 5.4	Pass at 1/8" (3 mm)	Pass at 1/8" (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" (0.51 mm)	0.020" (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 lb/f (14-16 kN)	1000 lbs/f (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

Inspection

IMPORTANT NOTE: Verify that all cracks to be treated are caused by shrinkage due to concrete curing and are not structural in nature (typically caused by inadequate substrate design and/or construction for load conditions). Do not use Crack Suppression Kit over structural cracks or other areas with differential vertical movement.

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 laitance. Rough or uneven concrete surfaces should be made smooth with a 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). Existing ceramic tile and stone installations should be thoroughly cleaned and skim coated with a LATICRETE Latex Fortified Thin-Set Mortar.

- 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" (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 for complete details.

Application

For Hairline and Shrinkage Cracks

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 Blue 92 Anti-Fracture Membrane liquid, 8" (200mm) wide over the using a paint roller or paint brush and immediately apply the 6" (150mm) wide Waterproofing/Anti-Fracture Fabric into the wet liquid. Press firmly with brush or roller to allow complete "bleed through" of liquid. Immediately apply a second liberal coat^{^^} of Blue 92 Anti-Fracture Membrane liquid over the fabric and allow to dry. Apply a liberal coat^{^^} of Blue 92 Anti-Fracture Membrane to a minimum of three (3) times the width of the tile and immediately apply the 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 Blue 92 Anti-Fracture Membrane liquid over the fabric and allow to dry. Treat closest joint to crack, saw cut, or cold joint with LATASIL™. Refer to Detail ES-F125 (available at www.laticrete.com/ag) and TCNA Method F125 for more information.

For Cold and Saw Cut Joints

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: Fill saw cut or cold joints with a latex-fortified thin-set and allow to dry. Apply a liberal coat^{^^} of Blue 92 Anti-Fracture Membrane liquid, 8" (200 mm) wide over the using a paint roller or paint brush and immediately apply the 6" (150mm) wide Waterproofing/Anti-Fracture Fabric into the wet liquid. Press firmly with brush or roller to allow complete "bleed through" of liquid. Immediately apply a second liberal coat^{^^} of Blue 92 Anti-Fracture Membrane liquid over the fabric and allow to dry. Apply a liberal coat^{^^} of Blue 92 Anti-Fracture Membrane to a minimum of three (3) times the width of the tile and immediately apply the 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 Blue 92 Anti-Fracture Membrane liquid over the fabric and allow to dry. Treat closest joint to crack, saw cut, or cold joint with LATASIL.

Refer to Detail ES-F125 (available at [HYPERLINK "http://www.laticrete.com/ag"](http://www.laticrete.com/ag)) and TCNA Method F125 for more information.

^{^^} 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

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 (United States and Canada)

8. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY products require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers (e.g. caulking and expansion joints).

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

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 (United States and Canada)

DS 236.0: 9235 Waterproofing Membrane

DS 297.0: 220 Marble & Granite Mortar

DS WPAF.5: Installation of Membranes

DS 633.0: LATAPOXY 300 Adhesive

DS 6200.1: LATASIL

TDS 152: Bonding Ceramic Tile, Stone or Brick Over Wood Floors

DS 663.0: HYDRO BAN®

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