

PRODUCT DATA SHEET

SikaTile®-200 Fracture Guard Rapid

FAST DRYING ELASTOMERIC CRACK ISOLATION MEMBRANE



PRODUCT DESCRIPTION

SikaTile®-200 Fracture Guard Rapid is a single component, fast-drying thin, liquid applied crack isolation membrane for installation under ceramic tile or stone in residential, commercial, and industrial environments. With excellent elongation, adhesion, and high strength properties, SikaTile®-200 Fracture Guard Rapid provides a thin, continuous barrier providing up to 1/8" (3 mm) of in-plane crack isolation. SikaTile®-200 Fracture Guard Rapid dries in 1 to 2 hours depending on ambient conditions and is then ready to receive any Sika polymer or epoxy mortar.

USES

SikaTile®-200 Fracture Guard Rapid may be installed over any sound substrate normally acceptable to receive ceramic, quarry, porcelain, and stone tiles. When installed in accordance with manufacturer's specifications, SikaTile®-200 Fracture Guard Rapid will inhibit transferring of shrinkage and non-structural cracks caused by horizontal movement, when tile and stone finishes are used. Ideal for both residential and commercial applications.

RECOMMENDED SUBSTRATES

SikaTile®-200 Fracture Guard Rapid can be installed in most interior and exterior residential and commercial installations on floors over the following recommended substrates:

- Brick Masonry
- Cement Backer Board¹
- Cement Mortar Beds (cured)
- Cement Terrazzo
- Ceramic Tile and Stone
- Concrete
- Exterior Grade Plywood²
- Gypsum Drywall²
- Gypsum Mortar Bed
- Gypsum Oriented Strand Board²
- SikaLevel® Products

¹ Consult cement backer board manufacturer for installation recommendations and to verify acceptability for exterior use

² Interior Use Only

CHARACTERISTICS / ADVANTAGES

- For use on all sound common surfaces
- Crack isolation up to 1/8"
- Excellent elongation will inhibit the transfer of cracks
- Antimicrobial for mold and mildew resistance at the substrate
- Rapid drying – Begin tile and stone installation in 1 – 2 hours
- Easy installation with brush, roller, or trowel
- Excellent adhesion – bonds to most flooring surfaces
- Does not increase surface elevation
- Interior or exterior
- Low VOC's

ENVIRONMENTAL INFORMATION

Sika® is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product can contribute towards LEED® v4.1 certification:

- Up to 2 points towards MR Credit 5, Regional Materials

APPROVALS / STANDARDS

American National Standards Institute (ANSI) — ANSI A108.01, A108.17, and A118.12 of the American National Standards for the Installation of Ceramic Tile
ASTM International (ASTM)

- Resilient Floor Covering Institute - (RFCI) Recommended Work Practices for Removal of Resilient Floor Coverings
- Tile Council of North America (TCNA) - TCNA Handbook for Ceramic Tile Installation, TCNA F125, F125A and EJ171 Movement Joint Guidelines.
- ASTM D638 Standard Test Method for Tensile Properties of Plastics.
- ANSI: Meets A118.12 standard (Crack-Isolation Membranes for Thin-Set Ceramic Tile)

PRODUCT INFORMATION

Chemical Base	Emulsion polymer with additives
Packaging	1 Gallon and 3.5 Gallon Pails
Appearance / Color	Yellow (Dries to a Darker yellow)
Shelf Life	15 months from date of production when stored in original, sealed package
Storage Conditions	Store in undamaged, original, sealed package, in dry conditions

TECHNICAL INFORMATION

Tensile Adhesion Strength	> 350 psi (2.41 MPa) - ASTM D412		
Slant Shear Strength	Property	Test Method	Results
	Seam Strength	ASNI A18.10 Section 4.2	Pass
	Breaking Strength	ASNI A18.10 Section 4.3	Pass
	Dimensional Stability	ASNI A18.10 Section 4.4	Pass

APPLICATION INFORMATION

Coverage	80 sq. ft. per gallon at 30-35 mils thick
Layer Thickness	30 - 35 mils Final film thickness ≥ 15 Mils
Cure Time	1 - 2 hours *When cured at 70 ° F (21 ° C) and 50% RH. Ambient conditions may speed or slow drying times.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding

transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

LIMITATIONS

- Protect from traffic, dirt, or dust from other trades until the final installation of the floor covering.
- Do not use below 40°F (4°C); do not allow membrane or substrate to be below 40°F (4°C) for the first 72 hours after application.
- Do not use membrane as an adhesive or wear surface, membrane must be covered with ceramic or stone tile.
- Do not install over substrates containing asbestos.
- Do not apply over self-stick tile, particleboard, or similar types of dimensionally unstable substrates.
- Do not use over cracks or control joints subject to out-of-plane movement or in-plane movement greater than 3/8" (10 mm).
- Not recommended for use on concrete floors when hydrostatic pressure or substrate moisture exceeds 8 lbs./ per 1,000 sq. ft. in 24 hours.
- Do not use as primary roofing membrane.
- Protect from freezing.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces must be between 40°F (4°C) to 90°F (32°C) and structurally sound (deflection not to exceed 1/360 of the span), dry, clean, and free from oil, grease, wax, paint, old adhesives, sealers, and curing compounds. Any contaminants which inhibit proper bond must be removed. Substrate preparation should be completed following ANSI A108 AN-2 "General Requirements for Sub-surfaces". All substrates should be plumb and true, surface deviation should not exceed 1/4" in 10'. Patching, leveling or areas requiring a mortar bed should be prepared using SikaLevel® Underlayments. Movement (Expansion) joints should be provided to comply with TCNA method EJ171. Concrete must be free of any negative hydrostatic pressure and/or excessive moisture. Existing joint openings larger than 3/16" must be treated according to TCNA methods prior to the application of primer and elastomeric membrane.

SUBSTRATES

Concrete Substrates: All concrete substrates should be cured a minimum of 28 days. Smooth steel troweled floors should be roughed up using mechanical chipping, scraping, or shot blasting. Dampen porous or dry concrete prior to installation of tile. Do not leave puddles or standing water. 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 8 lbs. per 1,000 sq. ft. in 24 hours.

Patching, Self-Leveling Compounds, Lightweight Gypsum

Concrete: Should be cured to the minimum manufacture's requirement for moisture sensitive installations.

Plywood and OSB Substrates: Must be a minimum of two (2) layers 5/8" exterior grade plywood (EGP). 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. Maximum joist spacing should be 16" on center and the deflection of the floor structure and sub-floor must not exceed L/360 of the span under combined live or dead loads.

Other Substrates: All other substrates and or sub-flooring systems shall be installed in a manner approved by both the product manufacturer and using appropriate installation method.

MIXING

Ready to use - stir by hand prior to use

APPLICATION

Read all installation instructions before installation. Ready to use product, do not dilute and stir by hand prior to use. Fill all cracks with SikaTile®-200 Fracture Guard Rapid using a flat trowel. Apply SikaTile®-200 Fracture Guard Rapid to the surface with a trowel, brush, or roller. Normal coverage is approximately 80 sq. ft. per gallon at 30-35 mils thick. After SikaTile®-200 Fracture Guard Rapid has dried (approximately 1 hour depending on surface porosity and ambient conditions; cool and wet weather may delay drying time), tile or stone may be installed directly over the membrane using a polymer modified tile setting adhesive.

Finish Surface Installation

Apply finish flooring in compliance with 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. Provide for expansion and control joints as specified per TCNA Method EJ171. Do not cover expansion joints with mortar.

SikaTile® 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 reference the most current edition of American National Standards Institute (ANSI), 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) and Manufacturer's instructions of selected setting materials, substrates, sub-floors, or other manufacturers being used in total, or any part of, an installed flooring system with SikaTile®. Consult your selected manufacturer of these above mentioned components to ensure selected products are compatible with SikaTile® elastomeric membranes.

CLEANING OF TOOLS

Clean tools and tile with water before the material dries.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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