

Terroxy® Iso-Crack Epoxy Membrane

Description:

Terroxy® Iso-Crack Epoxy Membrane is a 100% solid, flexible epoxy membrane designed to suppress reflective cracking in terrazzo and Terroxy® Clear Resin flooring systems. The unique bonding and elongation properties of polymer provide extraordinary crack suppression and is recommended for use over interior concrete surfaces prior to the flooring's installation.

Product Benefits:

- Crack resistant, provides 140–160% elongation allowing for substrate movement.
- Bridges substrate cracks and crevices up to 1/8" (3.2 mm)
- Waterproofing Membrane
- Insulates noise created by mechanical vibrations
- Excellent shock absorption qualities
- Environmentally friendly, zero VOC content
- Does not require priming in many cases

Coverage:

Membrane Thickness	Approximate Coverage Per Blended Gallon
40 mils	40 Sq. Ft.

Membrane Thickness	Approximate Coverage Per Blended 3.8 Liters
1.0 mm	3.7 sqm

Concrete Substrate Preparation:

1. Concrete slab shall have an efficient moisture/vapor barrier (suggested minimum: 15 mils thickness = .4 mm) directly under the concrete slab.
2. Concrete shall have a minimum cure time of 28 days. No curing agents should be used.
3. Concrete shall be level with a minimum variation from level of 1/4" in 10 feet (6.4 mm in 3.1 m).
4. Concrete shall receive a steel trowel finish.
5. Concrete surface shall be prepared mechanically by shot blasting. Surface preparation results should achieve a CSP3–CSP5 profile according to ICRI Guideline No. 03732.

Installation Instructions:

Mixing

Product and air temperature must be a minimum 60°F (15.5°C) for 24 hours prior to, during and after application. Add Part B Hardener to Part A Resin and mix thoroughly using a low speed mixer to avoid entraining excessive air.

Application

[Option 1: Membrane application for isolated cracking. Route out all cracks and fill with 100% solids Epoxy (Terroxy Primer, Terroxy Iso-Crack membrane or equivalent). Apply Terroxy® Iso-Crack Epoxy Membrane (spread at 40 mils thickness = 1.0 mm) across the crack allowing a minimum of 6 inches (15.2 cm) on either side. Imbed fiberglass scrim into wet membrane and saturate with additional membrane.]

[Option 2: Membrane application for extensive cracking or crack prevention. Route out all cracks and fill with 100% solids epoxy (Terroxy Primer, Terroxy Iso-Crack membrane or equivalent). Apply Terroxy® Iso-Crack Epoxy Membrane (spread at 40 mils thickness = 1.0 mm) over prepared substrate to produce full substrate coverage in areas to receive terrazzo. Fiberglass scrim is optional for full-membrane coverage.]

Do not use in temperatures below 60°F (15.5°C), as cooler temperatures delay hardening.

Product Data Sheet

Product Benefits:

- Crack Resistant
- 140–160% Elongation
- Waterproofing Membrane

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Technical Data

Property	Method	Typical Results
Pot Life	—	30 minutes
Viscosity (mixed)	—	3,000–4,000 cps
Tensile Strength	ASTM D-412	1,200 psi 8.27 MPa
Elongation	ASTM D-412	140–160%
Bond Strength	ASTM C-1583-04 / ACI COMM 403, Bulletin 59-43 (pages 1139-1141)	300 psi (100% concrete failure) 2.07 MPa (100% concrete failure)
Hardness	ASTM D-2240, Using Shore A Durometer	70–80
Impact Resistance	ASTM D-2794	16 ft. lbs.

Technical Service:

Terrazzo & Marble Supply Companies, distributor of Terroxy® Resin Systems, provides services and consultations on material selection, specifications and troubleshooting concerning proper thin-set epoxy terrazzo installation. Contact our Terrazzo Sales Desk at 800.7.MARBLE or T&M Technical Department at 866.TERROXY for questions or assistance.

Precautions:

Refer to cautionary information printed on the product container. For medical emergencies, contact Chemtrec, the Chemical Emergency Transportation Center, at 800.424.9300.

Warranty:

Terrazzo & Marble Supply Companies (T&M) warrants for a period of one (1) year that Terroxy® Iso-Crack Epoxy Membrane will be free of manufacturing defects and will conform to published specification when handled, stored, mixed and applied in accordance with recommendations of T&M. If Terroxy® Iso-Crack Epoxy Membrane fails to meet this warranty; the liability of T&M will be limited to replacement of any non-conforming Terroxy® Iso-Crack Epoxy Membrane only if notice of such non-conformity is given to T&M within one (1) year of delivery of materials. T&M may, according to its discretion, refund the price received by T&M in lieu of replacing the Terroxy® Iso-Crack Epoxy Membrane. No customer, distributor or representative of T&M is authorized to change or modify the published specification of this warranty in any way. No one is authorized to make oral warranties on behalf of T&M. In order to obtain replacement or refund, the customer must provide written notice containing full details of the non-conformity. T&M reserves the right to inspect the non-conforming Terroxy® Iso-Crack Epoxy Membrane prior to replacement. Except for the expressed warranty stated above, there is no other warranties, expressed or implied, including without limitation, implied warranty of merchantability or fitness for purpose. T&M's obligation shall not extend beyond the obligations expressly undertaken above and T&M shall have no liability or responsibility to the purchaser or any third party for any loss, cost, expense, damage or liability, whether direct or indirect, or for incidental or consequential damages.

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