

## Rapid Set Hardener

### **Description:**

Terroxy Rapid Set Hardener Part B is designed exclusively for use with Terroxy Resin Matrix Part A. (4A:1B Mix Ratio) **For professional use only.** See specific installation instructions before using.

### **Product Benefits:**

- Fastest cure for quickest turnaround
- Moisture Insensitivity
- Ideal For Grouting
- Fast-Set Fill Mortar

### **Coverage:**

8-10 ft<sup>2</sup> (0.7-0.9m<sup>2</sup>) per blended gallon at 3/8" (0.93cm) thickness with 60% #1 chip and 40% #0 chip mixture. Grout coverage will vary depending on surface conditions.

### **Cure Time:**

At 70°F/21°C, Terroxy will be tack free in 3 hours and may be ground in 4-6 hours. Grout film will cure in approximately 3 hours at 70°F/ 21°C.

### **Installation Instructions**

#### **Mixing / Application:**

Do not mix until the surface to be coated has been prepared. Mix Part A (Resin) to insure that pigment is properly suspended. Mix 4 parts by volume Part A with 1 part by volume Part B. Use a low speed power mixer and stir until a uniform appearance is achieved. Continue to mix for at least 3 minutes. Best results are achieved if Parts A and B are maintained at 70-80°F (21-26.6°C) for at least 24 hours before use. The working time for five gallons of blended matrix mixed with 180lbs / 81.6kg of marble is approximately 20 minutes. When using as grout hardener working time is 15 minutes.

#### **Limitation:**

Increased cure rates will limit the working time of the epoxy. In addition certain conditions may adversely affect the yellowing of epoxies.

#### **Health Hazards:**

Can cause chemical burns to skin and eyes. Vapors can be harmful. Prolonged or repeated exposure may cause asthma, skin sensitization or other allergic response. These hazards are not present when Terrazzo is fully cured.

#### **First Aid Procedures:**

Wear eye protection, gloves and body-covering clothing when handling. For eye irritation, flush at once with potable water for at least 15 minutes. For skin irritation, wash affected area with soap and warm water, remove contaminated clothes and wash before reuse. If ingested, do not induce vomiting and seek medical attention. If breathing is affected by inhalation, remove to fresh air and administer oxygen.

#### **Spill or Leak Actions:**

In case of spills, dispose of in accordance with federal, state and local regulations.

**Technical Data:**

Property	Test Method	Typical Results
Hardness	ASTM D-2240 using Shore-D Durometer	75-85
Tensile Strength	ASTM D-638	4300 psi min. (29.6 MPa)
Tensile Elongation	ASTM D-638	4-8%
Flexural Strength	ASTM D-790	4000 psi min. (31.0 MPa)
Flexural Modulus	ASTM D-790	2.1 x 10 <sup>5</sup> psi (14485.0 MPa)
Chemical Resistance	ASTM D-1308 Seven Days at room temperature by immersion method.	No deleterious effects : <ul style="list-style-type: none"> <li>• Distilled Water</li> <li>• Isopropanol</li> <li>• 0.025 Detergent Solution</li> <li>• 10% Sodium Hydroxide</li> <li>• 30% Sulfuric Acid</li> <li>• Mineral Oil</li> <li>• Ethanol</li> <li>• 1% Soap Solution</li> <li>• 10% Hydrochloric Acid</li> <li>• 5% Acetic Acid</li> </ul>
Flammability	ASTM D-635	Self extinguishing, extent of burning 0.25" (6.4 mm) max
Fire Rating - Test for Surface Burning Characteristics of Flooring	CAN/ULC S102.2-10 Tunnel Test	Smoke Developed Classification (SDC) - 175 Flame Spread Rating (FSR) - 5
Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chamber	ASTM D5116 (aka CA Section 01350)	Meets Section 1350 requirements
Thermal Coefficient of Linear Expansion	ASTM D-696	25x10 <sup>-6</sup> inches per inch per °F to 140°F maximum 11.4x10 <sup>-7</sup> cm per cm per °C to 60°C maximum
Bond Strength	ASTM C-1583-04/ ACI COMM 403, Bulletin 59-43 (pages 1139-1141)	350 psi minimum (2.41 MPa) - 100% concrete failure
Compressive Strength	ASTM C-579	10,000 psi minimum (68.9 MPa min), - 5-6 min per minute
Fungus & Bacterial Resistance	MIL F-52505 4.4.2.11	Will not support growth of fungus or bacteria
Impact Resistance	MIL D-3134F 4.7.3	Withstands 16 ft/lbs without cracking, delaminating or chipping
Resistance to Elevated Temperatures	MIL D-3134F 4.7.4	No slip or flow at 158°F (70°C)
Indentation	MIL D-3134F 4.7.4	Withstands 2000 lbs/ sq in for 30 min. without indentation Withstands 13.8 MPa for 30 min. without indentation
Thermal Shock Resistance	ASTM C-884	Passes
Water Absorption	ASTM D-570	0.010%
Critical Radiant Flux	ASTM D-648	1.0 watts/cm <sup>2</sup>
Abrasion Resistance	ASTM D-4060	0.35 grams lost

**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 708.385.6633** 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 Rapid Set Hardener 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 Rapid Set Hardener fails to meet this warranty; the liability of T&M will be limited to replacement of any non-conforming Terroxy Rapid Set Hardener 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 Rapid Set Hardener. 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 Rapid Set Hardener 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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