

## Terroxy Fill

## Product Data Sheet

Revision Date: 12/2022

### Description:

Terroxy Fill is recommended for use as a patching, leveling and flattening mortar to be used under Epoxy Terrazzo. These systems are composed of economical VOC compliant epoxy resins blended with durable graded aggregates.

### Product Benefits:

- Higher compressive and tensile strength than cementitious fill materials.
- Low shrinkage lowers the susceptibility to cracking during cure and beyond.
- Single product can be used in multiple thicknesses from 1/8" - 4" (3.175mm - 10.16cm) just by varying aggregate blend.
- Low odor 100% solids, formula is excellent for use in renovation work in occupied space.
- Quick turnaround time; can be topped with finished system within 8-16 hours.
- Epoxy based product is completely compatible with Terroxy Epoxy Terrazzo and other epoxy based topping systems.
- Environmentally friendly, zero VOC content.

### 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. Allow substrate to cure a minimum of 28 days.
3. Sub-floor surface should be checked for soundness and any "hollow" areas removed.
4. Test concrete substrates according to ASTM F2170 (determining relative humidity in concrete slabs using in situ probes). Do not install terrazzo or terrazzo accessories until test results are less than 80% RH. If 80% RH is not met, consult T&M for additional drying or negative side moisture mitigation methods. (See Terroxy Moisture Vapor Treatment or IC Moisture Guard PDS)
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.
6. A light steel trowel is needed to provide an acceptable surface with minimum laitance.
7. The use of concrete curing agents may prevent bonding. If curing agent present, surface must be shot blasted to remove all contaminants from the floor.

### Application:

- During installation and initial cure cycle, ambient air and slab temperature shall be maintained as per Terroxy Resin Systems' recommendations, minimum 60°F and max of 90°F (15.5°C - 32.2°C).
- Once surface preparation on concrete has been completed, a coat of Terroxy Primer should be applied over the entire area to receive the Terroxy Fill Mortar/Matrix. Apply the Primer at a rate of 250 square feet per gallon (18.6-23.2 square meters per blended 3.8 liters). Primer can be applied by brush, roller, spray or squeegee. Allow primer to cure for a minimum of 2-4 hours until tacky and no longer than 24 hours before topping with Terroxy Fill Mortar/Matrix. If primer is to be allowed to cure for more than 24 hours Terrazzo & Marble Supply recommends that 20-40 mesh sand or properly graded hard aggregate be lightly broadcast into the wet primer.
- After priming, placement of Terroxy Fill Mortar/Matrix can proceed. Mix Terroxy Fill at a rate of 5 Parts A to 1 Part B Hardener. For each gallon of resin T&M recommends that 55-65 lbs. (24.9-29.5 kg) of a well graded aggregate to be mixed thoroughly until all material is wet out. The mix design may vary based upon fill thickness and available aggregate. Consult T&M's Technical Department for mix design recommendations. After all aggregate is thoroughly mixed, mortar can be dumped onto substrate and screeded to desired thickness. Make sure to compact and pull fill tightly to close up the surface. Allow to cure overnight.

**Application (Continued):**

- For Grout Coat to fill any voids and/or pinholes in the Filled Mortar System, Terrazzo and Marble Supply recommends Terroxy Epoxy Primer. Mix thoroughly for three minutes under low speed. If material needs to be thickened, we recommend that each gallon of mixed primer, be mixed with 1 gallon of Cab-O-Sil for increased thixotropic properties as needed. Primer can be applied using steel trowel or rubber squeegee and back rolled to fill all voids and pinholes in the surface. Coverage rates will vary depending on porosity of the surface to be grouted. Allow initial cure of 6-8 hours (maximum of 24 hours) prior to proceeding with the remainder of the epoxy terrazzo installation as specified.

**Typical Physical Properties:**

Property	Method	Typical Results
Compressive Strength	ASTM D-695, Specimen B Cylinder	12,000 psi minimum
		682.7 MPa
Tensile Strength	ASTM D-638	4,500 psi minimum
		31.0 MPa
Flexural Strength	ASTM D-790	4,500 psi minimum
		31.0 MPa
Thermal Coefficient	ASTM D-696	21 x 10 <sup>-6</sup> in/in/°F
		8.27 x 10 <sup>-7</sup> cm/cm per °C to 60° maximum
Hardness Shore D	ASTM D 2240	75-85
Bond Strength	ASTM C1583-04 / ACI COMM Bulletin 59-43 (pages 1139-1141)	350 psi minimum (100% concrete failure)
		2.41 MPa (100% concrete failure)

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