

# Terroxy® Polyacrylate Matrix

## Description:

Terroxy® Polyacrylate Matrix is a unique, one component polymer resin for poured-in-place thin-set terrazzo flooring systems. When mixed with “portland” cement and a variety of marble, granite and other decorative aggregates, Terroxy® Polyacrylate is trowel applied to a 3/8”-1/2” nominal thickness to provide an attractive terrazzo finish.

## Product Benefits:

- Breathable system, may be used below grade where epoxy and polyester terrazzo systems are not compatible
- Less expensive than epoxy or polyester terrazzo systems
- More controlled than conventional polyacrylate systems, providing greater control over color, cracking and shrinkage
- Abrasion resistant for added durability
- Cement pigments allow for custom color and design variations in polyacrylate terrazzo system
- Environmentally friendly, zero VOC content

## Coverage:

Approximate coverage per blended batch is 60-65 square feet at 3/8”

Batch Contents	Quantity
Terroxy® Polyacrylate Matrix	2-1/2 Gallons
Water	2-1/2 Gallons
Cement	94 lbs (1 bag)
#1 Chips	100 lbs
#2 Chips	100 lbs
Filler	30-50 lbs
Cement Pigment (optional)	As needed to achieve desired color specified

Primer	Slurry Coat
Terroxy® Polyacrylate Matrix	1/2 Gallon
Water	1/2 Gallon
Cement	10-15 lbs

## Concrete Substrate Preparation:

1. Allow substrate to cure a minimum of 28 days.
2. Sub-floor should be level (maximum variation not to exceed 1/4” in 10 feet).
3. Concrete surface shall be prepared mechanically by shot blastings.
4. Surface to receive terrazzo should have a steel trowel finish.
5. Substrate should not be treated with a curing agent as this may prevent bonding. If curing agent present, surface must be shot blasted.

## Installation Instructions:

### Mixing

The concrete slab should be damp (no standing water) before Terroxy® Polyacrylate Primer/Slurry Coat is applied. Prime the concrete substrate using a broom, brush or squeegee (polyacrylate, water, concrete mixture). Do not mix and apply more material than can be covered in 15-20 minutes. Apply the polyacrylate terrazzo mix while the primer is still wet. Do not let the primed areas set more than 20 minutes before applying the terrazzo mix.

Mix Terroxy® Polyacrylate Matrix with exact measure of cement, water and color additive as specified. Place polyacrylate terrazzo mix on surface before primer/slurry coat hardens.

# Product Data Sheet

## Product Benefits:

- **Breathable**
- **Abrasion Resistant**
- **Custom Color Capability**
- **Zero VOC Content**

## Application

Trowel to desired thickness specified in the architect's design. Roll to remove excess moisture. Finish trowel for compaction and density. Cover with plastic to prevent shrinkage cracking. Allow system to cure for a minimum of 24 hours. Grind with 24 grit or rough grit stones. Begin grinding when system has achieved sufficient strength. Grout surface with blended polyacrylate cement grout to seal and fill voids. Allow the system to cure overnight. (Grout may be left on terrazzo until other trades' work is completed). Grind floor with medium or fine grit stones until grout is removed from surface. Polishing may need to be repeated if a higher shine finish is desired. Clean thoroughly with Terroxy® Terra Clean and allow surface to dry. Seal with Terroxy® Penetrating Sealer, Terroxy® WB Urethane Sealer, Terroxy® WB Acrylic or Terroxy® Acrylic Sealer in accordance with Terrazzo & Marble Supply Companies.

## Cure Time

24-72 hours prior to grinding.

## Technical Data:

Property	Test Method	Typical Results*
Flammability	ASTM D-635	Non-burning
Scratch Resistance	Corps. of Engineer's Guide, Spec 245.05	0.006 inches
Scratch Resistance	Federal Spec LT-345	0.032 inches
Accelerated Weathering	Federal Test Method Standard 141	No evidence of cracking, peeling, blistering or loss of adhesion after 300 hours accelerated weathering
Bond Strength	ACI Comm 403 Bulletin 59-43 (pages 1139-1141)	300 psi (100% concrete failure)
Compressive Strength	ASTM C-579	5,000 psi min.
Impact Resistance	MIL D-3134F 4.7.3	Withstands 16 ft/lbs without cracking, delaminating or chipping
Flexural Strength	ASTM C-348	2,000 psi min.
Water Absorption	MIL D-3134F 4.7.8	3.05%
Resistance to Wear	MIL D-3134F 4.7.10	Maximum wear 0.150 inches
Tensile Strength	ASTM C-190	900 psi min.
Thermal Coefficient of Linear Expansion	ASTM C-157	10x10 <sup>-6</sup> inches per inch per °C
Stain Resistance	ASTM D-2299	No evidence of permanent stain when sealed terrazzo surface exposed for 24 hours at room temperature to the following stain agents: aliphatic solvents, tobacco, catsup, fruit juice, tap water, uric acid, grease, blood, motor oil, sugar, vegetable juice, salt, washing compounds

\*All test specimens aged 28 days prior to testing.

## Additional Considerations:

During installation and initial cure cycle, ambient air and slab temperature shall be maintained as per Terroxy® Resin Systems' recommendations, minimum 60°F.

**Maintenance:**

Wash surface with Terroxy® Terra Clean or comparable neutral cleaner that has a pH factor between 7 and 10. Rinse with clean water then allow surface to dry. Routine mechanical scrubbing is recommended for all surfaces having non-skid texture. Long periods of heavy traffic may cause wear patterns across the surface. Apply a minimum two coats of Terroxy® WB Acrylic Sealer in accordance with Terrazzo & Marble Supply Companies.

**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 our 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 warrants for a period of one (1) year that Terroxy® Polyacrylate Matrix will be free of manufacturing defects and will conform to published specification when handled, stored, mixed and applied in accordance to recommendations of Terrazzo & Marble. If Terroxy® Polyacrylate Matrix fails to meet this warranty, the liability of Terrazzo & Marble will be limited to replacement of any non-conforming Terroxy® Polyacrylate Matrix only if notice of such non-conformity is given to Terrazzo & Marble within one (1) year from the delivery of materials. Terrazzo & Marble may, according to its discretion, refund the price received by Terrazzo & Marble in lieu of replacing the Terroxy® Polyacrylate Matrix. No customer, distributor or representative of Terrazzo & Marble 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 Terrazzo & Marble. In order to obtain replacement or refund, the customer must provide written notice containing full details of the non-conformity. Terrazzo & Marble reserves the right to inspect the non-conforming Terroxy® Polyacrylate Matrix 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. Terrazzo & Marble's obligation shall not extend beyond the obligations expressly undertaken above and Terrazzo & Marble 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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