

Polyacrylate Mortar Polymer

Description:

Terroxy Polyacrylate Mortar Polymer is a unique, one component polymer modified cementitious patching and leveling mortar. Terroxy Polyacrylate Mortar Polymer can be applied easily and at any thickness. It can be used both interior and exterior surfaces, including those exposed to freeze thaw cycles and continual exposure to water and moisture.

Product Benefits:

- Breathable system, may be used below grade where epoxy and polyester mortar systems are not compatible
- More controlled than conventional polyacrylate systems, providing greater control over color, cracking and shrinkage
- Abrasion resistant for added durability
- Superior adhesion in both interior-exterior application
- Water resistant and non-shrinking, can be applied to damp surfaces
- Environmentally friendly, zero VOC content

Coverage:

Approximate coverage per blended batch is 60-65 ft² (5.6-6.0 m²) at 3/8" (0.95 cm)

Batch Contents	Quantity
Terroxy Polyacrylate Mortar Polymer	2.5 gal. (9.46 L)
Water	2.5 gal. (9.46 L)
Cement	94 lbs. (42.63 kg) - 1 bag
Silica Sand, or well graded aggregate	200 lbs. (90.72 kg) *Gradation can vary
Filler, ATF-20	15-25 lbs. (6.8-11.3 kg)
Cement Pigment (optional)	As needed to achieve desired color

Primer	Slurry Coat
Terroxy Polyacrylate Mortar Polymer	.5 gal. (1.89 L)
Water	.5 gal. (1.89 L)
Cement	10-15 lbs. (4.5-6.8 kg)

Concrete Substrate Preparation:

1. Allow substrate to cure a minimum of 28 days.
2. Concrete surface shall be prepared mechanically by shot blasting.
3. Surface to receive mortar should have a steel trowel finish.
4. 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 mortar mix while the primer is still wet. Do not let the primed areas set more than 20 minutes before applying the mortar mix.

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

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.

Cure Time:

24 - 72 hours prior

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" (0.1524 mm)
	Federal Spec LT-345	0.032" (0.8128 mm)
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)
		2.1 MPa
Compressive Strength	ASTM C-579	5,000 psi min.
		34.5 MPa
Impact Resistance	MIL D-3134F 4.7.3	Withstands 16 ft/lbs without cracking, delaminating or chipping
Flexural Strength	ASTM C-348	2000 psi min.
		13.8 MPa
Water Absorption	MIL D-3134F 4.7.8	3.05%
Resistance to Wear	MIL D-3134F 4.7.10	Maximum wear 0.150" (3.81 mm)
Tensile Strength	ASTM C-190	900 psi min.
		6.2 MPa
Thermal Coefficient of Linear Expansion	ASTM C-157	10x10 ⁻⁶ inches per inch per °C

*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 / 15.5°C.

Technical Service:

Terrazzo & Marble Supply Companies, distributor of Terroxy Resin Systems, provides services and consultations on material selection, specifications and troubleshooting concerning proper 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 warrants for a period of one (1) year that Terroxy Polyacrylate Mortar Polymer 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 Mortar Polymer fails to meet this warranty, the liability of Terrazzo & Marble will be limited to replacement of any non-conforming Terroxy Polyacrylate Mortar Polymer 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 Mortar Polymer. 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 Mortar Polymer 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.