

Urethane Concrete Slurry

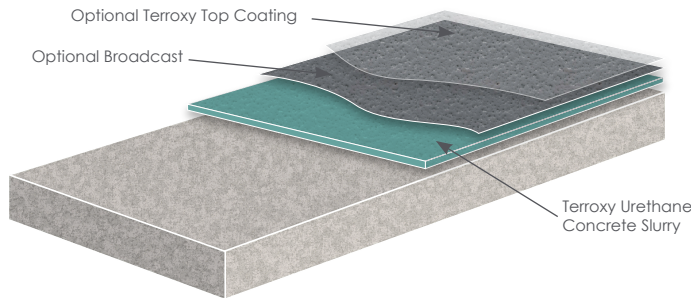
Terroxy Urethane Concrete Slurry is a 3/16" - 1/4", self-leveling, medium to heavy duty, colored, three component system designed to provide excellent resistance to abrasion, impact, and chemicals. This system is odorless, contains zero VOC's or HAP's and is formulated to reduce pin-holes and out-gassing when curing. The Urethane Concrete system is broadcast with silica sand or decorative quartz. Optional top coatings can be applied for a variety of finishes. Terroxy Urethane Concrete is available a variety of colors.

System Benefits:

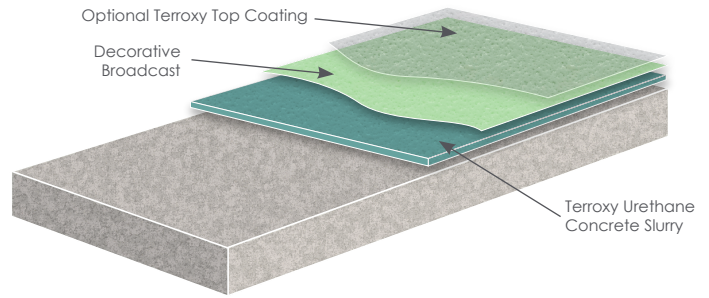
- Excellent chemical and stain resistance
- Thermal Shock Resistant
- Impact and abrasion resistant
- Rapid Cure & harness development
- Excellent bond strength
- Durable and easy to clean
- Water Based, Zero VOC Formulation
- Low temperature cure

Typical Applications:

- Industrial uses with medium to heavy traffic
- Processing plants
- Locker rooms and restrooms
- Clean rooms & laboratories
- Cold storage areas
- Areas requiring high performance



3/16" - 1/4" Urethane Concrete Slurry



3/16" - 1/4" Decorative Urethane Concrete Slurry

Property	Method	Results
Flexural Strength	ASTM-C 580	2,300 psi (14.7 MPa)
Abrasion Resistance	ASTM D-4060 C-S17 Wheel 1000 Cycles	10-20 mg loss Self-extinguishing over concrete 75-80
Flammability	ASTM D-635	1,000 psi minimum (6.9 MPa) 5000 psi (34.5 MPa)
Hardness	ASTM D-2240, Shore D	350 psi (2.4 MPa) 100% Concrete Failure
Tensile Strength	ASTM C-307	Withstands 16 ft/lbs without cracking, delaminating or chipping
Compressive Strength	ASTM C-579	0.89 x 10 ⁻⁵ inches per inch/degrees Fahrenheit maximum (1.6 x 10-5mm/°C)
Adhesion	ACI 503R	Will not support growth of fungus or bacteria 0.10%
Impact Resistance	MIL D-3134F 4.7.3	
Thermal Coefficient of Expansion	ASTM C-531	
Fungus & Bacterial Resistance	MIL F-52505 4.4.2.11	
Water Absorption	ASTM C-413	
Chemical Resistance	ASTM D-1308	No deleterious effects when exposed to: Alcohol Ethylene Glycol Fats, Oils & Sugars Gasoline, Diesel & Kerosine Hydrochloric Acid (<35%) Lactic Acid (Milk) Mineral Oils Most Organic Solvents Muriatic Acid Nitric Acid (<10%) Nitric Acid (<30%) Slight Softening PM Acetate Phosphoric Acid (<50%) Potassium Hydroxide (<50%) Sodium Hydroxide (<50%) Sulfuric Acid (<50%) Slight Gloss Loss Water Xylene

Installation

Terroxy materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the Terroxy Urethane Concrete Slurry. Contact the Technical Service Department for assistance prior to application.

Surface Preparation - General

Terroxy systems can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project.

Concrete Substrate Preparation:

Terroxy Urethane Concrete Slurry can be applied to a variety of substrates given that the surface is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate.

1. Concrete slab shall have an efficient moisture/vapor barrier (suggested minimum: 15 mils / 0.4mm thickness) directly under the concrete slab.
2. Allow substrate to cure a minimum of 28 days.
3. Sub-floor should be level - maximum variation not to exceed 1/4" in 10 ft (6.35 mm in 3 m).
4. The recommended preparation method is shot blasting.
5. Surface to receive Terroxy Urethane Concrete Slurry should have a steel trowel finish.
6. Substrate should not be treated with a curing agent as this may prevent bonding. If curing agent present, surface must be shot blasted.

For complete guidelines refer to Resinous Flooring Concrete Surface Preparation(RFCSP)

Temperature

Throughout the application process, substrate temperature should be above 50°F (10°C) and rising. Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrates should occur while temperature is falling to lessen off-gassing. The material should not be applied in direct sunlight, if possible.

Application Information

Material	Mix Ratio	Theoretical Coverage Per Coat	Packaging
Terroxy Urethane Concrete	Kit	Varies	4 gal

Different optional top coats - Consult individual Technical Data Sheet for mixing and application instructions.
 Terroxy UV Clear
 Terroxy Polyaspartic
 Essential Polymers T-Rx Coating

Terroxy Urethane Concrete Slurry

Mixing: Terroxy Urethane Cement is a three-component product and must be properly mixed and applied in order to perform as specified. Add Urethane Concrete Part B to Urethane Concrete Part A and mix with medium agitation for at least 60 seconds, or a uniform tan color. Pour mixture into a 5-gallon pail and add Urethane Concrete Part C powder with color pack (if using) and mix until uniform. Material has 15-20 minute pot life at 72°F.

Mix ratio is 1.2 gal. Part A, 0.8 gal. Part B, 40 lbs. Part C.

Application: Apply Urethane Concrete in a temperature controlled environment at a spread rate 30ft² - 22ft² at 3/16" to 1/4" thickness and then back roll with a loop or spiked roller. This material will cure faster in hot or humid conditions.

Limitation: Rapid cure. Do not mix more material than can be applied in 15-20 minutes. Slab on grade requires vapor/moisture barrier. Do not thin this product. Solvents may prevent proper curing. Substrate temperatures should be 35°F (4°C) minimum and rising. For best results, material should be maintained and stored at temperatures between 50° - 80°F (10° - 27°C).

IMPORTANT: This product is sensitive to liquid epoxy materials. Contamination with liquid epoxy materials will also cause excessive heat and product failure.

Cure Time: Allow to cure 5-6 Hours at 75°F (23.8°C) surface temperature before opening to light traffic. Full cure time is 5-7 days. Material cures more slowly at lower temperatures.

Terroxy Urethane Concrete Slurry - Broadcast

Applications: Same initial application as previous steps. Allow material to self-level, the surface should be lightly back-rolled with a loop or spiked roller to help smooth and release air. Begin evenly seeding silica sand or aggregate (20-40 mesh or other approved for Skid resistant aggregate) into the wet resin much the same as grass seed is spread. Aggregate may be spread by hand or mechanical blower but should be broadcast in such a way that it falls lightly into the resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.

Allow to cure, sweep off excess sand with a clean, stiff bristled broom. Clean aggregate can be saved for future use. All imperfections such as high spots should be smoothed before the application of an optional top coat.

NOTE: Aggregate distribution is critical to the success of the application. The floors finished appearance depends on the manner in which the aggregate has been applied. In grass seed like fashion, allow the aggregate to fall after being thrown upward and out. DO NOT THROW DOWNWARD AT A SHARP ANGLE USING FORCE.

NOTE: Urethane Concrete Slurry may be placed into service after the base slurry/broadcast has cured. Topcoats can be applied based upon desired texture and finish

Cure Time: Allow to cure overnight (a minimum of 24 hours) at 75°F (23.8°C) surface temperature before opening to traffic. Material cures more slowly at lower temperatures.

Terroxy Top Coating

Consult Product Data Sheet of desired top coat for mixing and application instructions.

Clean Up

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents

Maintenance:

After completing the application of Terroxy Urethane Concrete Slurry, the installer should provide the owner with proper maintenance instructions. If the floors become slippery due to animal fats, oil, grease, soap or other topical residue, promptly remove contaminants and rinse thoroughly.

Terroxy Urethane Concrete Slurry is easily cleaned with neutral pH Balance Cleaners or detergents. Routine hand scrubbing is recommended for all surfaces having a Skid resistant texture.

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 warrants for a period of one (1) year that Terroxy Urethane Concrete Slurry 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 Urethane Concrete Slurry fails to meet this warranty, the liability of Terrazzo & Marble will be limited to replacement of any non-conforming Terroxy Urethane Concrete Slurry 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 Urethane Concrete Slurry. 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 nonconformity. Terrazzo & Marble reserves the right to inspect the non-conforming Terroxy Urethane Concrete Slurry 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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