UV Clear Resin

Description:
Terroxy UV Clear Resin is an industrial strength translucent, epoxy resin intended for use in a variety of interior flooring systems. It is not intended for exterior applications. This multiple purpose product may be trowel-applied for a smooth finish forming a resinous flooring or applied in combination with colored quartz aggregate forming Terroxy Quartz Carpet, a seamless quartz flooring system featuring an aggressive, non-slip finish.

Product Benefits:
- Chemical and stain resistant
- Excellent UV Resistant Properties
- Supports vehicular traffic
- Maximum durability
- Does not support fungal or bacteria growth
- Zero VOC content
- Low odor

Typical Applications:
- Clear grout for terrazzo & Industrial floors
- Restaurants and cafeterias
- Locker rooms and restrooms
- Clean rooms and laboratories
- Classrooms and auditoriums
- Animal care areas
- Interior Decks and balconies
- Fiber optic lighting applications

Coverage:
Coverage rates shown below are approximate and will depend upon application technique, surface texture, porosity of substrate and job conditions. Rates include total volume required for both primer and hardener.

<table>
<thead>
<tr>
<th>Floor Type &amp; Thickness</th>
<th>Approximate Coverage Per Blended Gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/16” (1.58 mm) Terroxy Quartz Carpet</td>
<td>52 ft² (4.83 m²)</td>
</tr>
<tr>
<td>1/8” (3.175 mm) Terroxy Quartz Carpet</td>
<td>32 ft² (2.97 m²)</td>
</tr>
<tr>
<td>1/4” (6.35 mm) Terroxy Quartz Carpet</td>
<td>16 ft² (1.48 m²)</td>
</tr>
<tr>
<td>1/8” (3.175 mm) Resinous Flooring</td>
<td>32 ft² (2.97 m²)</td>
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Concrete Substrate Preparation:
Terroxy UV Clear Resin 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 UV Clear should have a steel trowel finish.
6. Substrate should not been treated with a curing agent as this may prevent bonding. If curing agent present, surface must be shot blasted.

For Terroxy Industrial Flooring Systems refer to Industrial Flooring Concrete Surface Preparation(IFCSP).

Installation Instructions
Mixing:
Add Part B into Part A and mix thoroughly with a low speed mixer for three minutes and until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations. The mixing ratio for Terroxy® UV Clear Resin is Two Parts A and One Part B by volume.

Applications:
For Terroxy Quartz Carpet Applications –
1. Begin by spreading the blended Terroxy UV Clear Resin [minimum rate of 160 ft² (14.86 m²) per gallon] to the floor surface with a steel trowel or squeegee.

**Application (continued):**

2. After spreading uniformly, the Terroxy UV Clear Resin should be leveled by lightly rolling a paint roller across surface. Allow wet binder to settle and release air for approximately four to six minutes.

3. Broadcast aggregate into the wet binder by sprinkling in such a manner that the aggregate falls vertically into the resin (applying aggregate at an angle will cause wind-rowing and uneven ridge in the floor). If wind rowing or uneven ridging occurs, scrape flat edge trowel at 45° angle across surface in order to remove excess aggregate. Installation crew should wear spiked shoes when standing in wet resin. Do not walk in sprinkled area until floor has cured.

4. To avoid spill-over, allow one to two inches from the adjoining batches when sprinkling aggregate. Let the floor cure 16 to 24 hours.

5. Remove excess aggregate with a new broom then vacuum. Repeat resin application at 80 ft² (7.43 m²) per gallon and broadcast sand to build to desired thickness (approximately 1/16" (1.58 mm) thickness per broadcast application). Allow floor to cure then remove excess aggregate.

**For Resinous Flooring Applications -**

1. Begin by spreading a thin primer coat (approximate rate of 250 ft² (23.22 m²) per gallon which varies with substrate condition) of blended solution to the floor surface with a trowel, squeegee, brush or short haired roller.

2. The mortar (blended epoxy and quartz aggregate) overlay must be applied over primer application before it cures. If primer becomes dry, hard or tack free, the surface must be sanded and re-primed.

3. Pre-blend the following ratio or parts of quartz aggregate and then add it to blended solution in an approximate ratio by volume of Five Parts Blended Aggregate to One Part Blended Terroxy UV Clear Resin.

4. Mix quartz aggregate and epoxy until all quartz is wetted out. Do not over mix.

5. Loosely distribute mortar on primed floor and spread evenly with rake or notched trowel.

6. Trowel-finish mortar to desired thickness. Working time of mortar is approximately 30 minutes.

7. Allow mortar to cure for 16 to 24 hours.

**Cure Time:**

Allow to cure overnight (a minimum of 16 hours) at 72°F (22.2°C) surface temperature before opening to traffic. Material cures more slowly at lower temperatures.

**Technical Data:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
<th>Results</th>
</tr>
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<tbody>
<tr>
<td>Weight at 1/8&quot; (3.175 mm) Thickness</td>
<td>-</td>
<td>1.0 – 1.2 lbs. /sqft.</td>
</tr>
<tr>
<td>Flammability</td>
<td>ASTM D-635</td>
<td>Self-extinguishing</td>
</tr>
<tr>
<td>Fungus &amp; Bacteria Resistance</td>
<td>MIL-F 52505 S4.4.2.11</td>
<td>Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests specified in TT-P.34</td>
</tr>
<tr>
<td>Hardness</td>
<td>ASTM D-2240, Shore D</td>
<td>77-85</td>
</tr>
<tr>
<td>Bond Strength</td>
<td>ASTM C-1583-04 / ACI COMM 403, Bulletin9-43 (pages 1139-1141)</td>
<td>350 psi minimum (2.41 MPa) - 100% concrete failure</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM C-579, Cured at 7 Days</td>
<td>14,500 psi minimum</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM C-307</td>
<td>2,000 psi minimum</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>ASTM C-501</td>
<td>Passes</td>
</tr>
<tr>
<td>Thermal Coefficient of Expansion</td>
<td>ASTM C-531</td>
<td>25 x 10⁻⁴ inches per inch/degrees Fahrenheit maximum</td>
</tr>
</tbody>
</table>

**Chemical Resistance**

<table>
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<tr>
<th>Method</th>
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</tr>
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</table>
| ASTM D-1308 | No deleterious effects when exposed to:  
- Distilled Water  
- Salt Water 20W Motor Oil  
- 5% Acetic Acid  
- 5% Ammonium Hydroxide  
- 10% Hydrochloric Acid  
- 5% Tri-sodium Phosphate  
- 10% Nitric Acid (slight stain)  
- Slight softening when exposed to:  
  - 95% Ethyl Alcohol  
  - Mineral Spirits  
  - Cola Syrup  
  - 50% Citric Acid  
  - 10% Sulfuric Acid  
  - 10% Sodium Hydroxide |
Maintenance:
After completing the application of Terroxy UV Clear Resin, 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 UV Clear Resin is easily cleaned with neutral pH Balance Cleaners or detergents. Routine hand scrubbing is recommended for all surfaces having a non-skid 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 UV Clear Resin 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 UV Clear Resin fails to meet this warranty, the liability of Terrazzo & Marble will be limited to replacement of any non-conforming Terroxy UV Clear Resin 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 UV Clear Resin. 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 UV Clear Resin 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.