

Binder Resin

Description:

Terroxy Binder Resin is a high solids, two component epoxy resin used for general purpose decorative aggregate and heavy duty resinous flooring systems. Binder Resin possesses a good chemical resistance, with excellent compressive strength and abrasion resistance.

Product Benefits:

- Good chemical resistance
- High compressive & tensile strength
- Abrasion resistance
- Low viscosity
- Fast curing.
- Zero V.O.C. Content

Typical Applications:

- Clear Binder Resin use in clear and solid color Systems including slurry and trowel applied flooring systems.
- Interior industrial uses with heavy traffic
- Kitchens, Restaurants & Cafeterias
- Chemical Processing Plants
- Docks & Ramps
- Locker rooms and restrooms
- Clean rooms & laboratories
- Classrooms & auditoriums

Coverage:

Terroxy Binder Resin can be applied to a variety of substrates given that the surface is properly prepared. The consumption and coverage rate of Terroxy Binder Resin will vary depending upon the type, size and gradation of the aggregate being used.

Two applications of Binder Resin may be required to adequately seal and fill surface imperfections and protect against off gassing. This can be accomplished by applying a second coat in opposite direction to the first. The subsequent binder coat is applied to the preceding course after it has reached sufficient cure, so as not to be damaged and the excess broadcast aggregate has been removed.

Surface Preparation:

Prior to applying Binder Resin, the surface must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other foreign matter. Remove water and dust from all surfaces with an oil-free air blast immediately prior to application. Concrete should be cleaned and prepared to achieve a laitance and contaminants free, textured surface by shot blasting or use other approved mechanical means.

For specific preparation guidelines contact your T&M representative.

Installation Instructions

Mixing:

Temperature of product must be 50°F (10°C) or above at time of mixing. Stir each component separately before blending. Mix one part, by volume of Part "A" with one Part "B" for three minutes with low speed electric drill and a mixing paddle, until uniform. Mix only that quantity that can be used within its pot life.

Applications:

Apply Binder Resin to a clean, dry surface with a squeegee, roller, or spray equipment. Approximate rate of coverage varies upon application.

Limitation:

Used as a binder / grout resin, or primer only, not to be used as a topcoat. Slab on grade requires vapor/moisture barrier. Do not thin this product. Solvents may prevent proper curing. Substrate temperatures should be 50°F (10°C) minimum and rising. For best results, material should be maintained and stored at temperatures between 65° - 75°F (18 - 24°C) during prior to and during application. Minimum age of concrete - 28 days. Material becomes a vapor barrier after cure. Tolerates Moisture Vapor Emissions up to 80% relative humidity as measured by ASTM F 2170. If over apply IC Moisture Guard per T&M's written instructions. Concrete or masonry must be tested for water-vapor transmission prior to application. Do not use in expansion joints (moving joints).

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.

Technical Data:

Property	Test Method	Results
Hardness		Shore D 80
Compressive Strength	ASTM D-695	7,600 psi (52 MPa)
Compressive Modulus	ASTM D-695	357,000 psi (2,460 MPa)
Tensile Strength	ASTM D-638	18,700 psi (130 MPa)
Tensile Modulus	ASTM D-638	275,000 psi (1,900 MPa)
Flexural Strength	ASTM D-790	12,700 psi (88 MPa)
Flexural Modulus	ASTM D-790	373,000 psi (2,570 MPa)
Application Temperature		Above 40°F (4°C)
Abrasion Resistance	ASTM D-4060 C-S17 Wheel 1000 Cycles	100 mg loss
Adhesion	ACI503R	300 psi (100% concrete failure) (2.07 MPa)
Flammability	ASTM D-635	Self Extinguishing over concrete
Resistance to elevated Temperatures	MIL-D-3134J	No Slip or flow at required temperature 158°F (70°C)

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 Resinous Coating System, 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 Resinous Coating System is easily cleaned with neutral pH Balance Cleaners or detergents. Routine hand scrubbing is recommended for all surfaces having a slip 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.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Terroxy product(s) under normal environmental and working conditions. Because each project is different, T&M cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

Warranty:

Terrazzo & Marble Supply Companies (T&M) warrants for a period of one (1) year that Terroxy Binder Resin 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 Binder Resin fails to meet this warranty; the liability of T&M will be limited to replacement of any non-conforming Terroxy Binder Resin 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 Binder Resin. 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 Moisture Vapor Treatment 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.

Distributed By:



464 Northgate Parkway
Wheeling, IL 60090
p: 847.947.7300

12632 Monarch St. Unit B
Garden Grove, CA 92841
p: 714.901.1400

6100 Seaforth St.
Baltimore, MD 21224
p: 410.633.6200



5789 Steeles Avenue West
Toronto, ON M9L 2W3
p. 416.789.5387