

Polyaspartic

Description:

Terroxy Polyaspartic is a unique high solids resin utilizing polyaspartic technology. It has been formulated to produce a fast curing, durable coating with excellent ultraviolet and weathering characteristics, matched with good chemical resistance, high temperature performance (to 300°F/149°C) and will cure at low temperatures (to 35°F/2°C). At full cure the resin will provide a highly abrasion resistant surface for use as a stand alone coating or an optional topcoat for a variety of recommended floor systems. Terroxy Polyaspartic will adhere to a properly prepared concrete substrate. Terroxy Polyaspartic is available in standard colors.

Product Benefits:

- Excellent chemical and stain resistance
- Excellent UV stability
- Can be used for exterior application
- Impact and abrasion resistant
- Fast cure time
- High gloss finish
- Excellent temperature resistance
- Durable and easy to clean
- Low V.O.C. Content
- Low temperature cure

Typical Applications:

- Polyaspartic should be used as a clear high gloss finish on decorative or industrial 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
- Cold storage areas

Coverage:

Terroxy Polyaspartic can be applied to a variety of substrates given that the surface is properly prepared. Typical coverage is 105 - 230 ft² per blended gallon (7 - 15 mils).

If applying a second coat of Terroxy Polyaspartic, the re-coat window is 3-6 hours. If beyond the 6 hours, you must abrade the first coat using 60-80 grit paper/screen. If second coat is not applied until after 24 hours, use 36 grit paper.

Concrete Substrate Preparation:

Terroxy Polyaspartic 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 3m).
4. The recommended preparation method is shot blasting.
5. Surface to receive Terroxy Polyaspartic 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 specific preparation guidelines contact your T&M representative.

Installation Instructions

Mixing:

Add 1 parts Polyaspartic Part A to 1 part Polyaspartic Part B by volume. Mix with low speed drill and mixing paddle until uniform. Do not mix more material than can be applied in 10-15 minutes (material will stiffen).

Application:

Apply Polyaspartic in a temperature controlled environment at a spread rate of 105-230 ft² (9.75-21.3 m²) per gallon to yield 7-15 mils maximum using a squeegee and backroll with a non-shedding 3/8" nap roller or shorter. In hot or humid conditions, apply via 18" roller in a dip and roll method from roller pan. This material will cure faster with exposure to moisture in the air. To avoid visible difference in texture or mix-to-mix "tie-ins" do not exceed 5 minutes from one mix to another. Use joints as natural breaks to divide sections of the floor.

When used as a topcoat over any smooth epoxy (primer or base coat) abrade with 60-80 grit paper/screen prior to application even if within the typical re-coat window. If going over an older resinous floor/coating, mechanically profile the surface via grinding or use 36 grit paper.

Limitation:

Do not apply at greater than 15 mils. Rapid cure. Do not mix more material than can be applied in 10-15 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 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. Concrete or masonry must be tested for water-vapor transmission prior to application. 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. Do not use in expansion joints (moving joints).

Cure Time:

Allow to cure 7-9 Hours at 75°F (23.8°C) surface temperature before opening to traffic. Material cures more slowly at lower temperatures.

Technical Data:

Property	Method	Results
Flexibility 1/8" mandrel	ASTM-D 1737	Pass
Abrasion Resistance	ASTM D-4060 C-S17 Wheel 1000 Cycles	100 mg loss
Flammability	ASTM D-635	Self-extinguishing over concrete
	ASTM E-648	Class 1
Gloss @ 73°F (23°C) 50% RH	60° gloss meter	>90 mileage points
VOC (volatile organic compound)	ASTM D-3960	48 g/L
Hardness	ASTM D-2240, Shore D	65/55
Taber Abrasion	ATSM D-4060	30 mg
Tensile Strength	ASTM D-638	3,000 psi minimum (20.7 MPa)
Flexural Strength	ASTM D-790	2,800 psi minimum (19.3 MPa)
Flexural Modulus	ASTM D-790	2.3 x 10 ⁵ psi (1586.0 MPa)
Tear Strength	ASTM D-624	340 psi
Thermal Coefficient of Linear Expansion	ASTM D-696	23x10 ⁻⁶ inches per inch per °F to 140°F maximum
Tensile Elongation	ASTM D-412	5-10% min.
Indentation	MIL D-3134F 4.7.4	Withstands 2000 lbs/ sq in for 30 min. without indentation
		Withstands 13.8 MPa for 30 min. without indentation
Chemical Resistance	ASTM D-1308	No deleterious effects when exposed to: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> - 95% Ethyl Alcohol - Mineral Spirits • Cola Syrup • 50% Citric Acid • 10% Sulfuric Acid • 10% Sodium Hydroxide

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 Polyaspartic, 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 Polyaspartic 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.

Warranty:

Terrazzo & Marble Supply Companies warrants for a period of one (1) year that Terroxy Polyaspartic 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 Polyaspartic fails to meet this warranty, the liability of Terrazzo & Marble will be limited to replacement of any non-conforming Terroxy Polyaspartic 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 Polyaspartic. 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 Polyaspartic 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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