

2K Urethane Top Coat

Description:

This product is a two-component water-based aliphatic polyurethane top coat for interior and exterior applications. This system contains low VOC's or HAP's, and is a light-stable polyurethane that won't chalk or turn yellow with exposure to sunlight. Properties include excellent chemical resistance against acids, bases, oils, and organic solvents. This product has a low viscosity that can be roller or spray applied. This polyurethane develops a hard, high-gloss, scratch resistant film that can be used as a clear or pigmented top-coat over existing coatings or acid-stained concrete. Terroxy 2K Urethane Top Coat is available in standard colors.

Product Benefits:

- Excellent chemical and stain resistance
- Excellent UV stability
- Impact and abrasion resistant
- High gloss finish
- Durable and easy to clean
- Low V.O.C. Content

Typical Applications:

- 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 2K Urethane Top Coat can be applied to a variety of substrates given that the surface is properly prepared. Typical coverage is 400 ft² per blended gallon (4 mils).

If applying a second coat of Terroxy 2K Urethane Top Coat, wait a minimum of 24 hours and abrade the first coat with a 60-80 grit paper.

Concrete Substrate Preparation:

Terroxy 2K Urethane Top Coat 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 2K Urethane Top Coat 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 specific preparation guidelines contact your T&M representative.

Installation Instructions

Mixing:

Premix 2K Urethane Top Coat Part A on medium agitation for at least 60 seconds, or a uniform color. Add 1 parts 2K Urethane Top Coat Part B to 3 parts 2K Urethane Top Coat Part A by volume. Mix with low speed drill and mixing paddle until uniform. Up to 20% water can be added to reduce viscosity. Do not mix more material than can be applied in 45 minutes (material may still appear normal after 45min but will have significantly diminished chemical properties).

Application:

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.

Apply 2K Urethane Top Coat in a temperature controlled environment at a spread rate of 400 ft² (per gallon to yield 4 mils maximum using a squeegee and backroll with a non-shedding 3/16" - 1/4" nap roller or shorter. Larger nap rollers may cause bubbles in the film.

Limitation:

Do not apply at greater than 5 mils. Do not mix more material than can be applied in 45 minutes. Slab on grade requires vapor/moisture barrier. Solvents may prevent proper curing. Substrate temperatures should be 50°F (10°C) minimum and rising. The substrate must be 5°F (3°C) above the Dew Point. Relative ambient humidity should be maintained between 30 - 80%. For best results, material should be maintained and stored at temperatures between 65 - 75°F (18 - 24°C) prior to and during application. Minimum age of concrete - 28 days. 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 24 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
Abrasion Resistance	ASTM D-4060 C-S17 Wheel 1000 Cycles	21.7mg loss
Hardness	Pencil Hardness	2H
Adhesion	ACI 503R / ASTM C-1583	300 psi (100% concrete failure) (2.07 MPa)
Compressive Strength	ASTM C-579, Cured at 7 Days	14,500 psi minimum (100 MPa)
Impact Resistance	MIL-D-3134J	Direct, inch pound greater than 120, passes; Reverse, inch pound greater than 120, passes
Chemical Resistance	ASTM D-1308	<p>No deleterious effects when exposed to:</p> <ul style="list-style-type: none"> •Distilled Water •Salt Water •20W Motor Oil, Gasoline, Diesel Fuel •Brake Fluid, Antifreeze, Hydraulic Fluid, Brake Cleaner •IPA, Acetone, MEK, Xylene, Aniline •Skydrol, Jet Fuel •5% Acetic Acid, 25% Acetic Acid •5% Ammonium Hydroxide •10% Hydrochloric Acid, 25% Hydrochloric Acid •5% Tri-sodium Phosphate •10% Hydrogen Peroxide •50% Citric Acid •10% Sulfuric Acid, 25% Sulfuric Acid •10% Sodium Hydroxide •Mustard, Ketchup, Red Wine, Alcohol •Urine, Blood •Vinegar, Iodine, Household Bleach <p>Limited Exposure Recommended (Occasional spills, frequent Cleaning):</p> <ul style="list-style-type: none"> •10% Nitric Acid (slight stain) •85% Phosphoric Acid •Fatty Acids •50% 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 2K Urethane Top Coat, 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 2K Urethane Top Coat 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 2K Urethane Top Coat 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 2K Urethane Top Coat fails to meet this warranty, the liability of Terrazzo & Marble will be limited to replacement of any non-conforming Terroxy 2K Urethane Top Coat 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 2K Urethane Top Coat. 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 2K Urethane Top Coat 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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