



Technical Data Sheet - Urethane

Product Description

One Stop Epoxy Water-Based Urethane is a two-component system. Formula has excellent scratch and chemical resistance virtually not affected by solvent exposure. Easy to mix three parts urethane resin to one-part catalysts by volume.

Available in Gloss and Satin

Approved Basecoats:

Water-based or 100% solids epoxy. Also approved as clear coat on Metallic Floors, concrete countertops, dye stained floors, prepped concrete floors.

Surface Prep & Priming:

Grind and Seal – Grind concrete floor finish to a 90 – 120 grit finish. vacuum dust, dampen a microfiber mop with clean water and mop to remove fine dust. Apply at 250 SFPG on a base coat and reapply at 400 SFPG on the finish coat.

Finish Coat For Epoxy – Coat over epoxy within 24 hours of epoxy installation. After 24 hours a light sanding is required to achieve proper bonding.

Mixing

Urethane is a 3:1 mixture. Open quart of Part B and pour contents into the pail containing 3 quarts of premeasured Part A. Mix at low speed with a drill and jiffy mixer for two minutes to ensure material is homogenous. Avoid whipping air into the coating. Improper mixing may result in product outgassing.

NOTE:

Always mix the entire kit. Mix ratio must be precise and once opened this product has a very short shelf life.

An orange peel texture is a characteristic of Urethane finishes. To lesson the orange peel texture effect, add **UP TO** 10 ounces of water **BUT NO MORE. (MORE IS NOT BETTER)**

Application

Pour contents into paint tray and dip and roll. Mixed material can be dipped and rolled evenly with 3/16" nap roller to maintain the desired thickness. **IMMEDIATE** back rolling is recommended to obtain uniform finish. An 18" roller is recommended over a 9 inch roller for any area over 100 square feet.

Slip Resistance

A fine 100 mesh aggregate can be added.

Coverage

Primer on porous concrete 250 SQPG
Solid color for concrete floors 200-250 SQPG
Grout coat or finish coat on partial flaked floors 250 SQPG
Best if applied at temperatures between 55-90 degrees Fahrenheit.

Dry time & Recoat:

Tack free and light foot traffic dry time is 6-8 hours
Recoat time is 12-24 hours.
Heavy foot traffic 48 hours
Vehicular Traffic 72 hours (3 days.)
Lightly sand the surface and wipe down with denatured alcohol or acetone before applying additional coats or finish coats.

Physical Properties:

Viscosity Mixed	Brookfield	250cps
Low-Lustre/Gloss	At 60 degrees	5-7/85-90
Solids (Weight/Volume)	ASTM D 2369	58 % /45%
Adhesion to Concrete	ASTMD 4541	550psi
Koenig Hardness	ASTM D4366	130
Tabor Abrasion	ASTM D4060	3.8 mgs lost
Coefficient of Friction	ASTM 2047	< .60
VOC	< less than 50 grams/liter	

Chemical Resistance: ASTM D-1308

Acetic Acid	Y	Methyl Chloride	N
Acetone	N	Mineral Spirits	Y
Ammonia 30%	Y	Motor Oil	Y
Anti-Freeze	Y	Mustard Slight	Stain
Animal Urine	Y	Nitric Acid	N
Brake Fluid	Y	Orange Juice	Y
Chlorine	Y		
Chromic Acid 10%	Y	Phosphoric Acid	Y
Gasoline	Y	Silver Nitrate	Y
Hydraulic Fluid	Y	Skydrol	Y
Hydrochloric Acid 10%	Y	Sodium Hydroxide (Caustic)	Y
Hydrofluoric Acid	N	Sodium Hypochlorite (Bleach)	Y
Hydrogen Peroxide	Stain	Sulfuric Acid 10% (Battery Acid)	Y
Methyl Ethyl Ketone	Y	Windshield Wiper Fluid	Y
Methanol	Y		

Handling, Storage, Disposal & Clean-up:

May irritate eyes. Wear gloves

Store in clean dry area do not freeze

Dispose in accordance with all state local and federal laws

Clean-up tools and equipment with warm water

Regulatory

Less than 50 grams/liter

Meets all VOC categories in US and Canada

Contributes to Leed

Warranty: MATERIAL ONLY IF PROVEN DEFECTIVE, NO LABOR – SEE BELOW

One Stop Epoxy

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