



URETHANE WATER BASED

CLEAR WATER-BASED URETHANE PROTECTIVE FLOOR COATING

COATINGS DECORATIVE FLOOR

URETHANE WB

MASTER FORMAT #: 00 00 00

DESCRIPTION

URETHANE WATER BASED is a non-yellowing, two-component, aliphatic urethane coating with excellent wear and adhesion properties. When used as a topcoat for epoxy-based coatings, URETHANE WATER BASED provides UV-light protection and additional abrasion resistance.

PRIMARY APPLICATIONS

URETHANE WATER BASED is recommended as a high performance top coat for epoxy floor coating systems, or as a stand-alone sealer.

FEATURES/BENEFITS

- Apply directly over plain or stained concrete
- Topcoat for HIGH PERFORMANCE EPOXY
- Water-based, low odor
- Good chemical resistance
- Non-yellowing
- Excellent abrasion resistance
- Single or multiple coat application
- Interior or exterior use
- Available in standard colors

TECHNICAL INFORMATION

Typical Engineering Data:
The following results were developed under laboratory conditions.

Viscosity cp500 to 800	VOC content <25 g/L
Working time1 to 2 hours	Solids by weight56%
Drying time @ 73 °F (24 °C), 50% RH	Resistance to tire markingexcellent
Tack free4 to 6 hours	Taber abrasion CS-17 wheel
Light foot traffic8 to 10 hours	1000 gram load78 mg weight loss
Complete cure24 hours	Appearance: milky white color when wet; dries clear

Chemical resistance Spot Test after 14 day cure (ASTM D1308)

	RESULT AFTER 4 HOURS	RESULT AFTER 24 HOURS
10% Acetic Acid	no effect	slight softening
10% Sulfuric Acid	no effect	no effect
MEK	soft, blistered	soft, blistered
IPA	soft	soft
14% Ammonium Hydroxide	no effect	stained
10% Bleach	no effect	no effect
Gasoline	no effect	slight softening
50% Sodium Hydroxide	no effect	no effect

PACKAGING

URETHANE WATER BASED is packaged in 1 gal (3.8 L) kits, 2 per case.

SHELF LIFE

1 Year in original, unopened containers.

COVERAGE

The coverage rate is 300 to 400 ft²/gal (7.4 to 9.8 m²/L), and is highly dependent on substrate texture and porosity.

DIRECTIONS FOR USE

SURFACE PREPARATION:

New concrete must be cured a minimum of 28 days. Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and other contaminants. Applications to epoxy coatings should be done after the epoxy is tack free, but no longer than 24 hours after the epoxy is applied.

PRIMING:

For optimum results indoors, prime the prepared concrete floor first with HIGH PERFORMANCE EPOXY, or PRIME COAT. The primed floor should be tack free and clear in appearance. Do not apply over acrylic sealers.

MIXING:

For 1 gal (3.78 L) kits, carefully pour the entire contents of Part B into the Part A. Do not change the ratio of cure to resin. Blend thoroughly for 2 to 3 minutes with a spiral mixing blade attached to a low-speed (400-600 RPM) electric drill. Take care not to introduce air into the material when mixing because this will cause "bubbles" in the coating when applied.

POT LIFE:

At 75 °F (24 °C) and 50% RH, URETHANE WATER BASED has a useful working time or pot life of approximately 3 hrs. Using any product beyond this time will result in variable results, and therefore any mixed product beyond the pot life should be discarded. Apply all material to the floor as quickly as possible.

APPLICATION:

When applying URETHANE WATER BASED, applicator should wear spiked shoes. Apply with a 1/4 to 3/8 in (6.3 to 9.5 mm) nap roller that is shed resistant. URETHANE WATER BASED must be rolled as evenly as possible. To do this, roll forward in a straight line and then roll the same column backwards to eliminate spike shoe marks. When rolling the next column, overlap the previous column by 1/2 in (1.3 cm). Avoid excess agitation of the liquid with the roller, which will lessen the chances of bubbling in the final film. Allow the coating to dry thoroughly before mixing and applying the next coat. It should be tack free before recoating (this takes between 3-4 hours @ 75 °F (24 °C) and 50% RH).

PRECAUTIONS/LIMITATIONS

- New concrete must cure for at least 28 days.
- Avoid mixing and application of this product if the floor temperature is below 55 °F (13 °C) or above 85 °F (29 °C).
- Do not use when relative humidity exceeds 75%.
- Do not exceed recommended coverage rates.
- Do not allow material to puddle during application.
- Allow each coat to dry tack-free surfaces before recoating.
- Apply each coat within 3 to 4 hours of previous coat (if longer, abrade the previous coat with Scotch-Brite™ or 320-grit sandpaper.)
- Discard any material subjected to freezing.
- For professional use only
- In all cases, consult the Safety Data Sheet before use.

Rev. 01.16

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