



Epoxy.com Product #441

Urethane Coating / Sealer Resin

DESCRIPTION

Epoxy.com # 441 is a two component water-based aliphatic (non-yellowing) polyurethane. **Epoxy.com # 441** is free of the health and environmental problems normally found in solvent-based urethanes, while maintaining excellent performance properties. **Epoxy.com # 441** polyurethane provides a matte finish. **Epoxy.com # 441** has good chemical, stain, and mar resistance. In addition, it's easy to clean and has excellent color retention under heavy foot traffic. **Epoxy.com # 441** is a high performance coating for use in a variety of seamless floor and wall coating systems. **Epoxy.com # 441** eliminates the strong solvent odor normally associated with many high performance materials. It's ideal for topcoats and finishes that require high abrasion resistance. Typical application areas are clean rooms, hospitals, pharmaceutical facilities, stained concrete, wood floors, and as a seal coat for most Epoxy.com floor and wall coating systems.

ADVANTAGES

- Low VOC
- Low Odor
- Fast Cure
- Excellent Adhesion
- Excellent Abrasion Resistance

CONSIDERATIONS

- Allow material to rest for 15-20 minutes for viscosity adjustment.
- Application rate is no less than 250-275 square feet per gallon. Thicker films will show bubbling in the cured film.
- Pot life will vary with temperature.
- Do not mix more material than can be used in 2 hours.
- Use of non-skid additive is recommended for slip resistance.

COMPOSITION

Epoxy.com # 441 is a polyester resin/aliphatic polyisocyanate.

COLOR SELECTION

Epoxy.com # 441 is available in clear and pigmented colors.

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined on EPOXY.COM. Please contact the technical service department for answers to your questions or visit our website at www.epoxy.com.

MIXING INSTRUCTIONS

- Mix only that amount of material that can be used in a two hour period. In hot weather, plan work for the cooler times of the day.
- If using less than full units, proportion the amounts carefully and mix for 2-3 minutes using a low speed drill, scraping the bottom and sides of the mixing vessel. **DO NOT ADD WATER.**

APPLICATION

- Apply **Epoxy.com # 441** polyurethane at a spread rate of 275-300 square feet per gallon to achieve 2.0-2.5 mils dry. Thicker application may result in bubbling in the cured film. Recoat time is approximately 3-4 hours at 77°F. Keep a wet edge at all times.
- Use with adequate ventilation. Read material safety data sheet before using.

TECHNICAL DATA

Mixing Ratio – Clear	8 Parts A to 1 Part B by Volume
Solids Content – Clear	43%, by Volume
Volatile Organic Content (VOC)	0.10 pounds/gallon
Pot Life	1 ½ - 2 hrs. @ 77°F, 1 Quart 45 minutes @ 95°F, 1 Quart
Viscosity After 15 Minutes @ 77°F	500-600 cps.
Viscosity After 30 Minutes @ 77°F	600 cps.

Wait 15-20 minutes after mixing to start application. Viscosity will decrease with time. DO NOT ADD WATER.

DRY TIME @ 77°F, 50% R.H.

Dry to Touch 2 hours

Recoat 4 hours

Light Traffic 16-24 hours

Full Cure 4-5 days

PERFORMANCE PROPERTIES

Gloss, 60° - Clear Matte Finish

Tabor Abrasion, 1,000 gm. load, 1,000 cycles, CS-17 Wheel 45 mg. loss

Impact Strength ASTM-D-2794

Direct 160 in. lbs.

Reverse 160 in. lbs.

**FOR INDUSTRIAL USE ONLY
KEEP AWAY FROM CHILDREN**

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