



## PRODUCT DATA

# WEARCOAT 440

Coatings For Industry, Inc. • 319 Township Line Road, Souderton, PA 18964 / 215-723-0919

### Description

Two component, 100% solids epoxy floor coating.

### Colors

Available in standard colors.

### Packaging

5 gallon, and 1 gallon kits.

### Uses

Wearcoat 440 is a high build, 100% solids epoxy floor coating with good chemical resistance properties, zero VOC, extremely low odor and a high resistance to amine blush. Wearcoat 440 in standard colors is typically used as an economical pigmented coating where high gloss and abrasion resistance is a concern. Wearcoat 440 Clear is an excellent binder for broadcast applications. It's recommended for interior use only as it is prone to UV yellowing. If extra chemical or abrasion resistance is required, use Wearcoat 100 or 480.

### Technical Data

Flash Point:	200°F (93°C)
Number of Coats:	One, minimum
Volume Solids:	100%
Theoretical Coverage Rate:	200 sq.ft/gallon @ 8 mils WFT/DFT
Drying Time: 72°F (22°C) @ 50% RH	Set to touch: 4 – 6 hours Recoat 8 hrs. minimum, 72 hrs. maximum Foot Traffic 24 hrs. Heavy Service 72 hrs. Full Cure 5 days
Thinners:	No thinning is required
Clean Up:	CFI 704 Cleaner
Minimum Application Temperature:	50 °F. *must be 5 °F above dew point
Continuous Service Temperature:	-10° to 180°F (-23° to 82°C) Dry Heat Resistance
Mix Ratio:	2 Part A to 1 Part B by volume
Pot Life @ 70 °F. & 50% R.H.:	25 minutes
Shelf Life:	18 Months in closed container stored @ 50° to 90°F

## Surface Preparation

All surfaces should be cleaned of all oil, grease, and dirt. Concrete surfaces must be etched or blasted in accordance with normal surface preparation recommendations for concrete floors as outlined in ASTM D-4258, ASTM D-4259, ASTM D-4260, ASTM D-4262.

Apply to clean, dry surfaces. Remove all dirt and oil residues with a suitable cleaner. Old coatings should be removed by chipping, sandblasting, or grinding.

New Concrete: Newly Poured concrete must age at least 30 days at temperatures over 70° before coating. Concrete should have a minimum of 3000 psi at the surface when tested with a schmidt hammer.

All efflorescence and laitance should be removed by acid etching, sandblasting, or grinding. Acid etching is usually fastest and easiest, and can be done by using a mixture of 20% muriatic acid.

Proper caution should be exercised, and protective clothing, rubber gloves, and goggles must be worn when working with the acid etching mixture.

The acid should be removed before it dries, by flushing with water until the ph of the concrete is between 6 and 7. The floor must be completely dry.

Old Concrete: Dirt, grease, or other contamination should be removed with suitable cleaners. Deteriorated areas of concrete should be removed, and, if deeper than 1/2", should be grouted back to original level of concrete.

Prior to surface cleaning, the floor should be tested for the presence of capillary moisture by moisture meters or by the plastic sheet method (ASTM D-4263).

## Application

Concrete should be dry and surface temperature should be at least 55 °F.

Wearcoat 440 epoxy is mixed as follows:

Mix Part A for 2 to 3 minutes to assure full dispersion of pigment.

Pour Component B (hardener) into Component A (resin).

Stir at low speed to prevent air entrapment for 2 to 5 minutes (base mixing time on temperature and viscosity), using an "in-the-bucket" mixer, or jiffy mixer.

Thorough mixing is required. Pour mixed material directly on the surface in a long puddle and spread using either a flat or a notched rubber squeegee, depending on film thickness requirements. (Do not scrape or drain mixing containers.) An applicator wearing spiked shoes should then immediately back roll and cross roll the material with a quality "lint-free" 3/8" nap roller cover. Finish application by "laying off" in one direction. Check film thickness frequently.

## Precautions

Wear safety glasses and impervious gloves.

**May Cause Skin Irritation. HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE. Vapor Harmful, Eye Irritant.**

If swallowed, do not induce vomiting. Call physician immediately. Avoid prolonged contact with skin, do not breathe vapor or spray mist. In case of contact with eyes, flush repeatedly with water and contact physician.

Use with adequate ventilation. In confined areas, use adequate forced ventilation during application and drying. In areas where there is a minimum of air movement, fresh air masks should be used.

Refer also to material safety data sheet.

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