PRODUCT DATA
WEARCOAT 481HP

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

Description
Two component, reduced yellowing, light stabilized, 100% solids high performance epoxy floor coating.

Colors
Available in clear.

Packaging
5 gallon kits and 1 gallon kits.

Uses
Wearcoat 481HP is a proprietary formulation that provides improved UV resistance and reduced yellowing in comparison to standard 100% solids epoxies. It is a high build, 100% solids epoxy floor coating with very good chemical resistance properties, zero VOC, extremely low odor and a wide range of film thickness. Wearcoat 481HP is ideally suited for decorative floors that require a high build clear that is light stable.

Technical Data

Flash Point:	200°+F (93°C)
Mix Ratio:	Supplied in kit form.
Number of Coats:	One, minimum
Volume Solids:	100%
Theoretical Coverage Rate:	160 sq.ft/gallon @ 10 mils WFT/DFT (Minimum)
Drying Time:	Recoat 8 hrs. minimum, 72 hrs. maximum
72°F (22°C) @ 50% RH	Tack Free: 6-8 hrs.
	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:	55 °F. *must be 5 °F above dew point
Continuous Service Temperature	-10° to 180°F (-23º to 82°C) Dry Heat Resistance
Limitations:	125 °F. Dry or wet
Pot Life @ 70 °F. & 50% R.H.:	30 minutes
Shelf Life:	18 Months in closed container stored @ 50° to 90°F
Induction Time:	None

Chemical Resistance- 72 Hour spot test.

Ratings: P- POOR, F- FAIR, G- GOOD, E- EXCELLENT.

ACETIC ACID 10%	G	CHROMIC ACID 10%	G
ACETIC ACID GLACIAL	P	CHROMIC ACID 20%	F
OLEIC ACID	E	CITRIC ACID 50%	E
OXALIC ACID	E	HYDROCHLORIC ACID 37%	G
TANNIC ACID	E	HYDROFLUORIC ACID 5%	G
AMMONIUM HYDROXIDE 30%	E	NITRIC ACID 10%	E
AMMONIUM HYDROXIDE 45%	G	NITRIC ACID 30%	F
CALCIUM HYDROXIDE	E	PHOSPHORIC ACID 50%	F
POTASSIUM HYDROXIDE 40%	E	SULFURIC (BATTERY ACID)	E
SODIUM CARBONATE	E	ACETONE	F
SODIUM CHLORIDE	E	ALCOHOL (METHYL)	F
SODIUM HYDROXIDE 50%		ALCOHOL (ISOPROPYL)	G
TRISODIUM PHOSPHATE	E	BUTYL ACETATE	G
ETHYLENE GLYCOL	E	DIACETONE ALCOHOL	E
FORMALDEHYDE	E	ETHYL ACETATE	F
GASOLINE	E	METHYL ETHYL KETONE	G
HYDROGEN PEROXIDE 10%	E	METHYL ISOBUTYL KETONE	G
JP5 JET FUEL	E	METHYLENE CHLORIDE	P
KEROSENE	G	MINERAL SPIRITS	E
LINSEED OIL	E	TRICHLOROETHYLENE	F
MINERAL OIL	E	XYLENE	G
SKYDROL	F	PERCHLOROETHYLENE	F
UREA	E	WATER	E

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 481HP epoxy is mixed as follows: Pour Component B (hardener) into Component A (resin). (the resin container has room to allow for hardener and stirring.) 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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