



PRODUCT DATA

WEARCOAT SG-1

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

Description

Single-component, epoxy ester, anti-slip floor and deck coating.

Colors

Available in gray, yellow, red and black.

Packaging

5 gallon kits and 1 gallon kits.

Uses

Wearcoat SG-1 is designed for application in areas of heavy pedestrian grade traffic. This coating offers excellent adhesion to metal, concrete and wood surfaces as well as chemical resistance to gasoline, oil, acids, alkalies and aliphatic solvents.

Technical Data

Flash Point:	81°F (27°C) cc
Volume Solids:	61%
Theoretical Coverage Rate:	50 sq.ft/gallon
Drying Time:	Foot Traffic 24 hrs.
72°F @ 50% RH	Heavy Service 48 hrs.
	Full Cure 7 days
Coefficient of Friction:	Dry – 1.17 Wet – 1.00 (ASTM F609)
Clean Up:	CFI 711 Thinner, MEK or Lacquer Thinner
Minimum Application Temperature:	55 °F. *must be 5 °F above dew point
Continuous Service Temperature	200°F (90°C) Dry Heat Resistance
Limitations:	125 °F. Dry or wet
Pot Life @ 70 °F. & 50% R.H.:	2 to 3 hrs. @ 72°F (22°C)
Shelf Life:	24 months in closed container stored @ 50° to 90°F
Induction Time:	None
VOC:	<2.8 lbs./gal. (<340 grams/liter)
Relative Humidity:	85% maximum
Primer:	Concrete: Wearcoat 1020 or Wearcoat 490
	Steel: Urethabond 104

Chemical Resistance- 72 Hour spot test.

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

ACETIC ACID 10%	G	CHROMIC ACID up to 20%	P
OLEIC ACID	P	CHROMIC ACID over 20%	P
OXALIC ACID	G	CITRIC ACID 50%	P
TANNIC ACID	G	HYDROCHLORIC ACID 20%	G
CALCIUM HYDROXIDE	G	HYDROFLUORIC ACID	P
POTASSIUM HYDROXIDE 40%	P	NITRIC ACID 10%	G
SODIUM CARBONATE	G	NITRIC ACID Concentrated	P
SODIUM CHLORIDE	G	PHOSPHORIC ACID DILUTE	G
SODIUM HYDROXIDE 50%	P	SULFURIC 20%	G
ETHYLENE GLYCOL	G	ACETONE 100%	P
TRISODIUM PHOSPHATE	E	ALCOLHOL'S	G
FORMALDEHYDE 10%	G	BUTYL ACETATE	G
GASOLINE (REGULAR)	E	METHYL ETHYL KETONE	G
JP5 JET FUEL	E	TRICHLOROETHYLENE	P
HYDROGEN PEROXDE Dilute	G	XYLENE	G
KEROSENE	E	MINERAL OIL	E
LINSEED OIL	G	UREA	G

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 SG-1 epoxy is mixed as follows:

If pigmented, mix Part A for 2 to 3 minutes to assure full dispersion of pigment.

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.
Flammable-Keep away from heat and open flame. Maintain good ventilation and avoid breathing vapors. Avoid prolonged or repeated skin contact. Keep from freezing.

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