



PRODUCT DATA

WEARCOAT SG-4

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

Description

Two-component, rapid curing, self-sealing, heavy duty, nonskid epoxy coating.

Colors

Available in gray, yellow, red and black.

Packaging

5 gallon unit containing 5 gal. slack-filled can resin/aggregate and 1 gal bag of hardener nested in the pail.

1 gallon unit containing 1 gal. slack-filled can resin/aggregate and 1 qt. can hardener.

Uses

Wearcoat SG-4 was designed to provide superior toughness and corrosion resistance.

This product was designed for use in marine and industrial areas to provide the highest possible level of anti-slip properties. Curing will occur rapidly at 70°F and allow heavy traffic in 24 hours. Curing is possible down to 35°F in 48 to 72 hours. These properties make Wearcoat SG-4 is suitable for application in areas where minimal down time is important.

Wearcoat SG-4 offers superior chemical resistance to acids, alkalies, solvents, grease, oil, saltwater, alcohol, gasoline, jet fuels, cellulose and other hydraulic fluids.

Technical Data

Flash Point:	108°F (33°C) tcc
Volume Solids:	90% (mixed)
Theoretical Coverage Rate:	30 to 40 sq.ft/gallon @ 1/32" to 1/16" DFT
Drying Time:	Light Traffic-12 hours @ 72°F -36-48 hours @ 35°F Heavy Traffic-24 hours @ 72°F -72 hours @ 35°F
Mix ratio:	7:1 resin to hardener by volume
Clean Up: Thinner	CFI 711 Thinner, MEK or Lacquer
Minimum Application Temperature:	35 °F. minimum to 80°F maximum *must be 5 °F above dew point
Continuous Service Temperature	200°F (90°C) Dry Heat Resistance
Pot Life @ 72 °F.	45 minutes
Induction Time:	None
VOC:	0.6 lbs./gal. (340 grams/liter)
Relative Humidity:	85% Maximum
Coefficient of Friction:	Dry – 0.88 Wet – 0.93 (ASTM F609)
Viscosity:	Slurry consistency
Primer:	Concrete: Wearcoat 1020, Wearcoat 490 Steel: Urethabond 104

Chemical Resistance- 72 Hour spot test.

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

ACETIC ACID up to 12%	E	CHROMIC ACID up to 20%	G
CHROMIC ACID over 20%	P	CITRIC ACID 50%	P
HYDROCHLORIC ACID 20%	G	CALCIUM HYDROXIDE	G
NITRIC ACID 10%	G	PHOSPHORIC ACID DILUTE	G
NITRIC ACID Concentrated	P	SODIUM CHLORIDE	E
SODIUM HYDROXIDE 50%	P	SULFURIC 20%	G
ETHYLENE GLYCOL	E	ACETONE 100%	P
GASOLINE (REGULAR)	E	METHYL ETHYL KETONE	G
JP5 JET FUEL	E	XYLENE	G
KEROSENE	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 35 °F.

Wearcoat SG-4 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" 1/4" nap or core 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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