carboline®

Carboguard® 890 VOC+

SELECTION DATA

GENERIC TYPE: Cross-linked epoxy.

GENERAL PROPERTIES: A self priming, high solids, high gloss, high build epoxy mastic. It can be applied by spray, brush, or roller over hand or power tool cleaned steel and is compatible with most existing coatings and tightly adhered rust. The cured film provides a tough, cleanable surface and is available in a wide variety of colors.

- Single coat corrosion protection.
- Excellent chemical resistance.
- Good flexibility and lower stress upon curing than most epoxy coatings.
- Very good abrasion resistance.
- Acceptable for use in incidental food contact areas in federally inspected meat and poultry facilities.

RECOMMENDED USES: Where a high performance, chemically resistant epoxy coating is desired. Offers outstanding protection for interior floors, walls, piping, equipment and structural steel or as an exterior coating for railcars in various corrosive environments. Industrial environments include Chemical Processing, Offshore Oil and Gas, Food Processing, Pharmaceutical, Water and Waste Water Treatment, Pulp and Paper and Power Generation among others. May be used as a two coat system direct to metal or concrete for Water and Municipal Waste Water immersion.

NOT RECOMMENDED FOR: Strong acid or solvent exposures, immersion service other than water, or over chlorinated rubber and latex coatings.

TYPICAL CHEMICAL RESISTANCE:

Exposure	Immersion	Splash & Spillage	Fumes
Acids	NR	Very Good	Very Good
Alkalies	NR	Excellent	Excellent
Solvents	NR	Very Good	Excellent
Salt Solutions	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent

TEMPERATURE RESISTANCE: (Non-Immersion)
Continuous: 250°F (121°C)
Non-continuous: 300°F (149°C)

At temperatures above 225°F, coating discoloration and loss of gloss can be observed, without loss of film integrity.

SUBSTRATES: Apply over properly prepared metal, concrete, or other surfaces as recommended.

COMPATIBLE COATINGS: May be applied directly over inorganic zincs, weathered galvanizing, epoxies, phenolics or other coatings as recommended. A test patch is recommended before use over existing coatings. A mist coat is required when applied over inorganic zincs to minimize bubbling. May be topcoated with polyurethanes or acrylics to upgrade weathering resistance. Not recommended over chlorinated rubber or latex coatings.

SPECIFICATION DATA

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL:

	By Volume
CARBOLINE 890	75% ± 2%

VOLATILE ORGANIC CONTENT:
The following are nominal values and may vary with color:
As Supplied: 1.78 lbs/gal (214 g/l)

Thinned:

Thinner	oz/gal	lbs/gal	g/l
2	13	2.26	271
33	16	2.38	285

RECOMMENDED DRY FILM THICKNESS PER COAT:
4-6 mils (100-150 microns).
6-8 mils (150-200 microns) for a more uniform gloss over inorganic zincs or for use over light rust.

In more severe environments a second coat of 4-6 mils (100-150 microns) is recommended.

Dry film thickness in excess of 10 mils (250 microns) per coat is not recommended. Excessive film thickness over inorganic zinc may increase damage during shipping or erection.

THEORETICAL COVERAGE PER MIXED GALLON:
1203 mil ft^2 (30 m^2/l at 25 microns)
241 ft^2 at 5 mils (6.0 m^2/l at 125 microns)

Mixing and application losses will vary and must be taken into consideration when estimating job requirements.

STORAGE CONDITIONS: Store indoors.
Temperature: 40-110°F (4-43°C) Humidity: 0-100%

SHELF LIFE: 36 months when stored indoors at 75°F (24°C).

COLORS: Available in Carboline Color Chart colors. Some colors may require two coats for adequate hiding and may noticeably change when exposed to sunlight, even for a short time.

GLOSS: High gloss. (Epoxies lose gloss, discolor and eventually chalk in sunlight exposure.)

ORDERING INFORMATION

Prices may be obtained from your Carboline Sales Representative or Carboline Customer Service.

APPROXIMATE SHIPPING WEIGHT:

	2 Gal Kit	10 Gal Kit
CARBOLINE 890	29 lbs (13 kg)	145 lbs (66 kg)
	1s	5s
Thinner 2	8 lbs (4 kg)	39 lbs (18 kg)
Thinner 33	9 lbs (4 kg)	45 lbs (20 kg)

FLASH POINT: (Setaflash)

CARBOLINE 890 Part A	89°F	(32°C)
CARBOLINE 890 Part B	71°F	(22°C)
Thinner 2	24°F	(-5°C)
Thinner 33	89°F	(32°C)

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