product data sheet

carboline®

CARBOLINE® 193 PRIMER (Lead-Free)

SELECTION DATA

GENERIC TYPE: Epoxy polyamide. Part A and Part B mixed prior to application.

GENERAL PROPERTIES: An economical, lead-free, high-build maintenance coating primer. Cures to a hard, tough film with excellent sub-film corrosion resistance. Has excellent physical properties and good all-around chemical resistance. CARBOLINE 193 Primer has excellent adhesion and better tolerance of field application variables than other types of coatings.

RECOMMENDED USES: Recommended for protection of structural steel, concrete, equipment and tank exteriors in chemical and food plants, breweries, paper mills and other industries with corrosive conditions. Excellent protection for equipment subjected to impact abrasion, detergents, water, steam and oils.

NOT RECOMMENDED FOR: Immersion, splash and spillage of strong solvents, or concentrated acids.

CHEMICAL RESISTANCE GUIDE:

Exposure	Splash and Spillage	Fumes
Acids	Good	Very Good
Alkalies	Good	Excellent
Solvents	Very Good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

TEMPERATURE RESISTANCE: (non-immersion)

Continuous:	200°F (93°C)
Non-continuous:	250°F (121°C)

FLEXIBILITY: Good **WEATHERING:** Good (Chalks)

ABRASION RESISTANCE: Very good

SUBSTRATES: CARBOLINE 193 Primer may be applied over properly prepared steel and concrete, or others as recommended.

TOPCOAT REQUIRED: CARBOLINE 193 Primer may be topcoated with catalyzed epoxies, vinyls, modified phenolics, or others as recommended.

SPECIFICATION DATA

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL:

	By Volume
CARBOLINE 193 Primer	50% ± 2%

RECOMMENDED DRY FILM THICKNESS PER COAT: 3 mils (75 microns)

THEORETICAL COVERAGE PER MIXED GALLON:*

802 mil sq. ft. (20 sq. m/l at 25 microns)
267 sq. ft. at 3 mils (6.7 sq. m/l at 75 microns)

***NOTE:** Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

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

COLORS: Green 0300, Red 0500, Yellow 0600, Gray 0700 and White 0800.

GLOSS: Flat

ORDERING INFORMATION

Prices may be obtained from Carboline sales representative or main office.

APPROXIMATE SHIPPING WEIGHT:

	2's	10's
CARBOLINE 193 Primer	25 lbs. (11.4 kg)	126 lbs. (57.3 kg)
CARBOLINE Thinner #15	9 lbs. (4.1 kg) in 1's	45 lbs. (20.4 kg) in 5's
CARBOLINE Thinner #33	9 lbs. (4.1 kg) in 1's	45 lbs. (20.4 kg) in 5's

FLASH POINT: (Pensky-Martens Closed Cup)

CARBOLINE 193 Primer Part A	46°F (8°C)
CARBOLINE 193 Part B	60°F (16°C)
CARBOLINE Thinner #15	77°F (25°C)
CARBOLINE Thinner #33	101°F (38°C)

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