product data carboline®

Carboline®195 Surfacer

Selection Data

GENERIC TYPE : Modified epoxy-polyamide. Part A and Part B mixed prior to application.

GENERAL PROPERTIES : High build epoxy coating for sealing and surfacing irregular cementitious surfaces. Particularly recommended for nuclear plants where concrete surfaces must be prepared for ease of decontamination.

RECOMMENDED USES : As a primer-surfacer on concrete under Carboguard 890, Phenoline 373 Finish and other Carboline topcoats as recommended.

NOT RECOMMENDED FOR : Immersion service without recommended topcoats.

CHEMICAL RESISTANCE GUIDE : (Consult topcoat for Chemical Resistance Guide).

Exposure	Splash & Spillage
Acids	Very Good
Alkalies	Excellent
Solvents	Excellent
Salt	Excellent
Water	Excellent

TEMPERATURE RESISTANCE : (Non-immersion)
Continuous : 200°F(93℃)
Non-continuous : 300°F(149℃)

FLEXIBILITY : Very Good

WEATHERING : Good (chalks, discolors)

ABRASION RESISTANCE : Very Good

SUBSTRATES : Concrete, or other surfaces as recommended.

TOPCOAT REQUIRED : May be topcoated with catalyzed epoxies, modified phenolics, modified polyurethanes or others as recommended. Carboguard 890 or Phenoline 373 Finish is normally used for nuclear application. Other acceptable topcoats are Phenoline 300 Finish or Phenoline 302.

COMPATIBILITY WITH OTHER COATINGS : Should be applied directly to concrete substrate or over Carboline 1340 Clear if a curing compound is desired.

Specification Data

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL :

	By Volume
Carboline195 Surfacer	97% ± 2%

RECOMMENDED DRY FILM THICKNESS PER COAT :
10-60 mils as required.
Typical average is 20 mils (500μ)

THEORETICAL COVERAGE PER MIXED GALLON :*
1556 mil sq. ft. (38.8 sq. m/ℓ @ 25μ)
78 sq. ft. at 20 mils (1.9 sq. m/ℓ @ 500μ)

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

SHELF LIFE : 24 months minimum

COLORS : Off-white

GLOSS : Low

Ordering Information

Prices may be obtained from Carboline Sales Representative or Main Office. Terms-Net 30 days.

APPROXIMATE SHIPPING WEIGHT :

	2 Gal. Kit	10 Gal. Kit
Carboline 195 surfacer	30 lbs.(5.0 kg)	140 lbs.(63.6 kg)
Carboline Thinner #2	9 lbs. in 1's (4.1kg)	43 lbs. in 5's (20.4 kg)

FLASH POINT : (Setaflash)

Carboline 195 surfacer Part A	130°F(54℃)
Carboline 195 surfacer Part B	198°F(92℃)
Carboline Thinner #2	30°F(-1℃)

*Comprehensive Application Instructions are available. Consult Carboline Technical Service Department for a copy.

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SURFACE PREPARATIONS : Remove any oil or grease from surface to be coated with clean rags soaked in Carboline Thinner#2 or toluol.

Concrete : Concrete floors should be at least as rough as medium grit sandpaper. The surface should be free of laitance. This can be accomplished by finishing technique, acid etch or mechanical abrasion. Concrete walls normally require only vacuuming or air blow-off. Do not coat concrete treated with hardening solutions (except for Carboline 1340 Clear) unless test patch indicates satisfactory adhesion. Do not apply coating unless concrete has cured at least 28 days @ 70°F(21℃) and 50% RH or equivalent.

MIXING : Mix separately, then combine and mix in the following proportions:

	2 Gal. Kit	10 Gal. Kit
Carboline 195 surfacer Part A	1 Gallon	5 Gallon
Carboline 195 surfacer Part B	1 Gallon	5 Gallon

Thin up to 18% by volume with Carboline Thinner #2.

POT LIFE : 1-1/2 hours at 75°F(24℃) and less at higher temperatures. Pot life ends when coating becomes too viscous to use.

APPLICATION TEMPERATURES :

	Material	Surfaces
Normal	60-75°F(16-24℃)	65-75°F(16-24℃)
Minimum	55°F(13℃)	50°F(10℃)
Maximum	90°F(32℃)	90°F(32℃)

	Ambient	Humidity
Normal	60-75°F(16-24℃)	30-70%
Minimum	45°F(7℃)	0%
Maximum	95°F(35℃)	95%

Do not apply when the surface temperature is less than 5°F (3℃) above the dew point.

Special thinning and application techniques may be required above or below normal conditions.

BRUSH : Thin up to 25% by volume per gallon with Carboline #2. Brush only for touch-up.

ROLLER : Useful where spraying is impractical. Immediately after rolling, squeegee surfacer into all holes. Apply second coat at full thickness.

SQUEEGEE : Squeegee in an upward motion filling in all porosities. A second coat may be necessary if the surface is extremely rough. Thin up to 12% by volume with Carboline #2.

Trowel : After filling the hole, apply a coat at full thickness.

DRYING TIMES :

To Recoat : May be recoated with itself as soon as firm generally allowed to cure overnight.

To Topcoat :

Temperature	At 20 Mils*
50°F(10℃)	12 days
60°F(16℃)	6 days
75°F(24℃)	3 days
90°F(32℃)	1 day

* Carboline 195 Surfacer which has been applied at thicknesses greater than 20 mils will require longer cure times, especially if applied thinned.

NOTE : For exterior exposures, protect from exposure to sunlight and topcoat as soon as properly cured. Sunlight will cause discoloration which must be removed prior to topcoating. If exposed to sunlight, the discoloration must be removed by wiping with Carboline Surface Preparation #1 before recoating.

CLEAN UP : Use Carboline Thinner#2 or xylol.

STORAGE CONDITIONS : (store indoors)
Temperature : 40-100°F(4-38℃)
Humidity : 0-95%

For more detailed information, please consult specific Carboline 195 Surfacer Application Instructions.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST. WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.