product data carboline®

Carboline® 295 WB Surfacer

Selection & Specification Data

GENERIC TYPE	Water-based epoxy-polyamide surfacer. Part A and Part B mixed prior to application.
GENERAL PROPERTIES	High build Water-based epoxy coating for sealing and surfacing irregular cementitious surfaces. Particularly recommended for nuclear plants where concrete surfaces must be prepared for ease of decontamination. Approved by USDA for coating incidental food contact surfaces. Excellent application properties provide economical installation.
RECOMMENDED USES	As a primer-surfacer on concrete under recommended Carboline topcoats. As a water-based surfacer, it has low odor and no fire hazard during application, In mary cases, this will enable application with minimal interruption of normal work and without interfering with other trades.
NOT RECOMMENDED FOR	Use without recommended topcoats.
CHEMICAL RESISTANCE GUIDE	See Product Data Sheet for selected topcoats.
TEMPERATURE RESISTANCE: (Non-immersion)	Continuous : 200˚F(93℃) Non-continuous : 275˚F(135℃)
FLEXIBILITY	Poor
WEATHERING	N.A
ABRASION RESISTANCE	Good
SUBSTRATES	Poured concrete, concrete block or other surfaces as recommended.
TOPCOAT REQUIRED	Topcoat with catalyzed epoxies, epoxy-coal tar, modified phenolics, urethanes or others as recommended. Some suitable topcoats are Phenoline 305, Carboguard 890, Carboline 801 W and Carboline 801.
COMPATIBILITY WITH OTHER COATINGS	Should be applied directly to concrete. May be applied over catalyzed epoxies such as Carboline 1340 Clear.* *Recommended concrete curing compound.

Specification Data

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL

	By Volume
Carboline 295 WB Surfacer	68%±2%

RECOMMENDED DRY FILM THICKNESS PER COAT

Normally 10-40 mils (250-1000µ, but as required to obtain smooth surface, up to 60 mils (1.5mm) in a single coat. See Application Instructions for specifics.)

THEORETICAL COVERAGE PER MIXED GALLON*

1091 mil sq. ft. (27.2 sq. m/ℓ @ 25µ)
55 sq. ft. at 20 mils (1.4 sq. m/ℓ @ 500u)

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

SHELF LIFE	12 months minimum
COLORS	Off-white only. Color may vary on batch bases.
GLOSS	Flat

Ordering Information

APPROXIMATE SHIPPING WEIGHT :

	2's	10's
Carboline 295 WB Surfacer	32lbs.(14.5kg)	155lbs.(70.4kg)

FLASH POINT : (Pensky-Martens Closed Cup)

Carboline 295 WB Surfacer Part A	over	200˚F(93℃)
Carboline 295 WB Surfacer Part B		110˚F(43℃)
Carboline Thinner #15 *		77˚F(25℃)

Prices may be obtained from Carboline Sales Representative or Main Office.

* For equipment clean-up

Note: Please refer to separate application instructions for more specific data if required.

Application Instructions

SURFACE PREPARATIONS

Remove any oil or grease from surface to be coated with clean rags soaked in Carboline Thinner # 2 or toluol in accordance with SSPC-SP 1-82.

Concrete must be cured at least 28 days at 70˚F(21℃) and 50% R.H. or equivalent time before topcoating.

Note : Extremely dry concrete should be predampened with water prior to application of Carboline 295 WB Surfacer.

October 2014

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Application Instructions

WALL AND CEILINGS Remove fins and protrusions by stoning, sanding or grinding. Form oils, incompatible curing agents or hardeners must be removed by abrasive blasting to obtain a surface similar to medium grit sandpaper. Blow off with compressed air.

FLOORS Smooth surfaces must be acid etched or abrasive blasted to remove laitance and to roughen surface. For broom finished floors, blow off with compressed air vacuum to remove dust.

IMMERSION SERVICE Abrasive blast all surface to open voids and obtain a surface similar to medium grit sandpaper. Sweep or blow off with compressed air, and vacuum thoroughly to remove dust.

MIXING Power mix separately, then combine and mix in the following proportions

	2 Gal. Kit	10 Gal. Kit
Carboline 295 WB Surfacer Part A	1 Gallon	5 Gallon
Carboline 295 WB Surfacer Part A	1 Gallon	5 Gallon

Thin up to 12% by volume with clean, potable water.

POT LIFE 2 Hours at 75˚F(24℃) and less at higher temperatures. Pot life ends when coating loses body and begins to sag.

APPLICATION TEMPERATURES :

	Material	Surfaces
Normal	61-85˚F(16-29℃)	50-85˚F(10-29℃)
Minimum	45˚F(7℃)	39˚F(4℃)
Maximum	90˚F(32℃)	130˚F(54℃)

	Ambient	Humidity
Normal	50-85˚F(10-29℃)	30-60%
Minimum	39˚F(4℃)	0%
Maximum	130˚F(54℃)	95%

Carboline 295 WB Surfacer may be applied to damp concrete; however, it should not be applied if concrete is "sweating" or over puddled water.

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

SPRAY Hold gun 12-14 inches from surface and at a right angle to the surface.

Use a 50% overlap with each pass of the gun. on irregular surfaces, coat the edges first, making an extra pass later.

WALL AND CEILINGS Spray 10-15 mils (250-375μ) coat, work into porosities with rubber squeegee, then spray on another 10-40mil (250-1000μ) coat to seal. Time between these coats may be as little as 5 minutes.

FLOORS Spray a 10-15 mils (250-375μ) coat, work into porosities with a rubber squeegee. Remove excess material from floor surface leaving surface in porosities and voids only. **Do not apply an additional coat to seal surface.** After surfacer has cured, lightly sand and vacuum surface prior to topcoating.

NOTE : The following equipment has been found suitable; however, equivalent equipment may be substituted.

Airless Use 1/2" minimum I.D. material hose. A 30 mesh inline filter is recommended.

Mfr. & Gun	Pump*
Graco 207-300	Bulldog (30:1) or King(45:1)
Binks Model 620	B8-36 (37:1)

*Teflon packings are recommended and available from pump manufacturer. Use a .031"-.035" tip with 2200-2400 psi. Revers-A-Clean tip is recommended.

BRUSH OR ROLLER Brush only for touch-up with clean, bristled brush. May be rolled on, then squeegeed.

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 potable water.

DRYING TIMES : (At recommended thickness)

Temperature	To Topcoat
50˚F(10℃)	14 days
60˚F(16℃)	7 days
75˚F(24℃)	3 days
90˚F(32℃)	1.5 days

Final Cure Dependent on topcoat used. See final cure for topcoat.

CLEAN UP Use clean water followed by Carboline Thinner # 15 or glycol ether solvent.

STORAGE CONDITIONS Temperature : 45-110˚F(7-43℃)
Humidity : 0-100%

FOR MORE DETAILED INFORMATION, PLEASE CONSULT SPECIFIC CARBOLINE APPLICATION INSTRUCTIONS.

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Coatings - Linings - Fireproofing

October 2014