APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions, and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

SURFACE PREPARATION: Remove any oil or grease from surface to be coated with clean rags soaked in CARBOLINE Thinner #2 in accordance with SSPC-SP 1.

Steel: Preferred — Dry abrasive blast to a Commercial Grade Finish in accordance with SSPC-SP 6-82 to a degree of cleanliness in accordance with NACE #3 to obtain a 1-2 mil (25-50 micron) blast profile. Acceptable — Power tool clean per SSPC-SP 3 for touch-up only.

Concrete: Do not coat concrete treated with hardening solutions unless test patches indicate satisfactory adhesion. Do not apply coating unless concrete has cured at least 28 days at 70°F (21°C) and 50% RH or equivalent time. Apply to properly prepared concrete that was acid etched or sweep sandblasted.

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

	2 Gal. Kit	10 Gal. Kit
CARBOLINE 193 Primer Part A	1 gal.	5 gals.
CARBOLINE 193 Part B	1 gal.	5 gals.

Thin up to 25% by volume with CARBOLINE Thinner #15. For hot or windy conditions above 80°F (27°C), use CARBOLINE Thinner #33.

NOTE: Use of thinners other than those supplied or approved by Carboline may adversely affect product performance and void product warranty, whether express or implied.

POT LIFE: Twelve hours at 75°F (24°C) and less at higher temperatures. Pot life ends when coating loses body and begins to sag.

APPLICATION TEMPERATURES:

	Material	Surfaces
Normal	65-85°F (18-29°C)	65-85°F (18-29°C)
Minimum	55°F (13°C)	50°F (10°C)
Maximum	90°F (32°C)	135°F (57°C)
	Ambient	**Humidity**
Normal	65-85°F (18-29°C)	NA
Minimum	50°F (10°C)	0%
Maximum	110°F (43°C)	90%

Do not apply when the surface temperature is less than 5°F (2°C) above the dew point.

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

SPRAY: Use sufficient air volume for correct operation of equipment.

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

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

Conventional: Use 3/8" minimum I.D. material hose. Hold gun approximately 12-14 inches from the surface and at a right angle to the surface.

Mfr. and Gun	Fluid Tip	Air Cap
Binks #18 or #62	66	63PB
DeVilbiss P-MBC or JGA	E Approx. .070" I.D.	704

Airless: Use 3/8" minimum I.D. material hose. Hold gun approximately 18-20 inches from the surface and at a right angle to the surface.

Mfr. and Gun	Pump*
DeVilbiss JGN-502	QFA-514 or QFA-519
Graco 205-591	President 30:1 or Bulldog 30:1
Binks Model 700	B5-18 or B8-36 37:1

*Teflon packings are recommended and are available from pump manufacturer.

Use a .013"–.017" tip with 2000 psi.

BRUSH OR ROLLER: For small areas or touch-up only. Use a medium, natural bristle brush, with full strokes. Avoid rebrushing. Use short nap mohair roller with phenolic core.

DRYING TIMES:

Temperature	Dry to Touch	Between Coats	Final Cure*
50°F (10°C)	90 min.	24 hours	12 days
60°F (16°C)	45 min.	12 hours	6 days
75°F (24°C)	25 min.	6 hours	2 days
90°F (32°C)	15 min.	3 hours	2 days

***NOTE:** If allowed to weather, chalking should be removed by water washing and then allowed to dry thoroughly prior to topcoating.

CLEAN UP: Use CARBOLINE Thinner #2.

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

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.

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