

Selection Data

GENERIC TYPE : GP-10 Chromate Modified Alkyd Primer
 GP-20 Red Oxide Modified Alkyd Primer
 GP-30 Red Lead Modified Alkyd Primer

GENERAL PROPERTIES : GP-10, GP-20 and GP-30 Primers are relatively fast-drying coatings requiring a minimum down time. They dry to touch in 10-20 minutes at 75°F(24°C) and are formulated with special inhibitive pigments which make them very resistant to atmospheric corrosion and rust undercutting. The high solids content and excellent coverage make the GP-10, GP-20 and GP-30 more economical than competitive alkyds in the same price-per-gallon range. They have excellent handling properties and trouble-free application characteristics.

RECOMMENDED USES : Recommended for use in any light industrial or light marine service where chemical attack is not a factor. When used with recommended topcoat, should be used for atmospheric protection of plant equipment, farm equipment, road building machinery, pipe racks, exposed structural steel, color coding for safety zones, tank exteriors, ladders and steel buildings.

NOT RECOMMENDED FOR : Immersion service or splash & spillage of strong acids, alkalis or solvents.

CHEMICAL RESISTANCE : (with recommended topcoat)

<u>Exposure</u>	<u>Splash & Spillage</u>	<u>Fumes</u>
Acids	NR	Poor
Alkalis	NR	Poor
Solvents	NR	Poor
Salt(Brines)	Good	Good
Water	Excellent	Excellent

TEMPERATURE RESISTANCE : (Non-Immersion)

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

FLEXIBILITY : Excellent

WEATHERING : Excellent

ABRASION RESISTANCE : Very Good

SUBSTRATES : Apply over properly prepared steel, treated galvanized or aluminum, or others as recommended.

TOPCOAT REQUIRED : May be topcoated with Carboline alkyds, silicone-alkyds, oil-based paints or others as recommended. Specific recommendations include Carboline AD and GP finishes and carboline HM-70. Do not topcoat with coatings containing strong solvents, such as epoxies or vinyls.

COMPATIBILITY WITH OTHER COATINGS: Apply directly over steel substrate. Non-ferrous surfaces and new galvanizing require a wash coat of Carboline 1037WP prior to coating.

Specification Data

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL :

	<u>By Volume</u>
Carboline GP-10, GP-20, GP-30	40% ± 2%

RECOMMENDED DRY FILM THICKNESS PER COAT :
 2 mils (50µ)

THEORETICAL COVERAGE PER MIXED GALLON* :

640 mil sq. ft. (15.6 sq. m/l @ 25µ)
 320 sq. ft. at 2 mils (7.8 sq. m/l @ 50µ)

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

SHELF LIFE : 2 years minimum.

COLORS : GP-10 : Yellow 5602, Gray 5703, Green 5302
 GP-20 : Red 0500
 GP-30 : Orange 0400

GLOSS : Flat

Ordering Information

Prices may be obtained from Carboline sales representative or main office; Net 30 days.

SHIPPING WEIGHT :

	<u>1's</u>	<u>5's</u>
Carboline GP-10 Primer	10-1/2 lbs. (4.8kg)	50-1/2 lbs. (22.8kg)
Carboline GP-20 Primer	10 lbs.(4.5kg)	50 lbs.(22.7kg)
Carboline GP-30 Primer	11lbs.(5kg)	53 lbs.(24kg)
Carboline Thinner # 45	9 lbs.(4.1kg)	45 lbs.(20.4kg)
Carboline Thinner # 85	9 lbs.(4.1kg)	45 lbs.(20.4kg)

FLASH POINT : (Pensky-Martens Closed Cup)

Carboline GP-10, GP-20 & GP-30	50°F(10°C)
Carboline Thinner # 45	105°F(41°C)
Carboline Thinner # 85	40°F(4°C)

Carboline® GP-10, GP-20, GP-30

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

STEEL : For maximum protection dry abrasive blast to a commercial blast finish in accordance with SSPC-SP6-63 to a degree of cleanliness in accordance with NACE #3 to obtain a profile less than 1-1/2mil (40µ). Minimum surface preparation is hand tool clean in accordance with SSPC-SP 2-63.

MIXING : Mix to a uniform consistency. before thinning.

SPRAY : Thin up to 15% by volume with Carboline Thinner #85.

BRUSH : Thin up to 10% by volume with Carboline Thinner #45.

APPLICATION TEMPERATURES :

	<u>Material</u>	<u>Surfaces</u>
Normal	50-90°F(10-32°C)	55-90°F(13-32°C)
Minimum	35°F(2°C)	35°F(2°C)
Maximum	120°F(49°C)	165°F(74°C)

	<u>Ambient</u>	<u>Humidity</u>
Normal	55-100°F(13-38°C)	30-95%
Minimum	35°F(2°C)	0%
Maximum	120°F(49°C)	98%

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

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

SPRAY : Use adequate air volume for correct operation. Hold gun 8-10 inches from the 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.

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

CONVENTIONAL : Use 3/8" I.D. minimum, material hose.

<u>Mfr. & Gun</u>	<u>Fluid Tip</u>	<u>Air Cap</u>
Binks #18 or #62	63PB	63PB
DeVilbiss P-MBC or JGA	FX	704
	Approx..043" I.D.	

AIRLESS : Use a 3/8 " I.D. minimum material line.

<u>Mfr. & Gun</u>	<u>Pump*</u>
DeVilbiss JGB-5026	QFA-514
Graco 205-162	President 30 : 1 or Bulldog 30 : 1
Binks 500	Mercury 5C

*Teflon packings are recommended and are available from manufacturer. Use a .013 " tip with 2000 psi.

BRUSH : Use medium bristle brush.

<u>Temperature</u>	<u>Dry To Touch</u>	<u>Dry To Recoat</u>	<u>Dry To Stack</u>	<u>Final Cure</u>
40°F(4°C)	30 min	12 hrs.	24 hrs.	80 hrs.
50°F(10°C)	20 min	10 hrs.	18 hrs.	60 hrs.
60°F(16°C)	15 min	8 hrs.	15 hrs.	48 hrs.
75°F(24°C)	12 min	5 hrs.	12 hrs.	24 hrs.
90°F(32°C)	10 min	4 hrs.	10 hrs.	20 hrs.

DRYING TIMES : @ 2 mil (50µ) D.F.T. at 50% RH.

STORAGE CONDITIONS :

Temperature : 35°F~110°F(2~43°C)
Humidity : 0-100%

CLEAN UP : Use Carboline Thinner#2 or Xylol.

For more detailed information, please consult specific Carboline Application Guides.

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.

