product data

carboline®

Carbocoat® GP10,
Carbocoat® GP20,

Selection & Specification Data

Generic Type
Modified Alkyd Primer

Description
GP-10 Zinc Chromate Modified Alkyd Primer
GP-20 Red Oxide Modified Alkyd Primer
They are formulated with special inhibitive pigments which make them very resistant to atmospheric corrosion and rust undercutting.

Features
* GP-10, GP-20 Primers are relatively fast-drying coatings requiring a minimum down time.
* Excellent weathering
* Excellent flexibility
* They have excellent handling properties and trouble free application characteristics.

Color
Yellow, Grey, Green, Red, Orange

Topcoats
Maybe topcoated with Carboline alkyds, silicone-alkyds, oil-based paints or others as recommended.
Specific recommendations include Admiral AD and GP finishes and Admiral HM-70. Do not topcoat with coatings containing strong solvents, such as epoxies or vinyls.

Dry Film Thickness
2 mils (50 microns)

Solids Content

	By Volume
GP-10, GP-20,	55±2%

Theoretical Coverage Rate
22.4 sq. m/l @ 25 microns
11.2 sq.m/l @ 50 microns

Dry Temp. Resistance
Continuous : 200ºF (93ºC)
Non continuous : 250ºF (121ºC)

Limitations
Immersion service or splash & spillage of strong acids, alkalies or solvents.

Chemical Resistance Guide
With Recommended top coat

Exposure	Splash & Spillage	Fumes
Acids	NR	Poor
Alkalies	NR	Poor
Solvents	NR	Por
Salt (Brines)	Good	Good
Water	Excellent	Excellent

NR = not recommended

Substrates & Surface Preparation

General
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 blash finish in accordance with SSPC-SP6 to obtain a profile less than 1½ mil (40 microns). Minimum surface preparation is hand tool tool cleaning in accordance with SSPC-SP2-SP3

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. **General Guidelines**:

Spray Application (General)
Thin up 20% by volume with Carboline Thinner #45

Conventional Spray
Use 3/8" I.D. minimum material hose.

Mfr. & Gun	fluid Tip	Air Cap
Binks#18 or #62	63B	63PB
DeVilbis P-MBC or JGA	FX	704

Approx. 043"ID

Airless Spray
Use 3/8" I.D. minimum material line

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

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

Brush & Roller (General)
For small areas and touch-up only. Avoid excessive re-brushing or re-rolling.

Brush
Use medium bristle brush

Roller
Use a short-nap natural roller cover with phenolic core

December 2009 replaces December 2008

Carbocoat® GP10 ; GP20

Mixing & Thinning

Mixing Mix to a uniform consistency before thinning.

Thinning Thin up 10% by volume with Carboline Thinner #45

Cleanup & Safety

Cleanup Use Thinner #2 or Acetone. In case of spillage,
absorb and dispose of in accordance with local applicable regulations

Safety Read and follow all caution statements on this
product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation and wear gloves or use protective cream on face and hands if hypersensitive. Keep container closed when not in use

Ventilation When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator.

Caution This product contains flammable solvents. Keep
away from sparks and open flames. In confined areas, workmen must wear appropriate respirator protection. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	50-90ºF (10-32ºC)	55-90ºF (13-32ºC)	50-100ºF (10-38ºC)	30-95%
Minimum	35ºF (2ºC)	35ºF (2ºC)	35ºF (2ºC)	0%
Maximum	120ºF (49ºC)	165ºF (74ºC)	120ºF (49ºC)	98%

Curing Schedule

Drying times @ 2 mils (50 micron) D.F.T at 50% RH

Surface Temp. & 50% Relative Humidity	Dry to Touch	Dry to Recoat	Final Cure
50°F (10°C)	20 min	10 hrs	60 hrs
60°F (16°C)	15 min	8 hrs	48 hrs
75°F (24°C)	12 min	5 hrs	24 hrs
90°F (32°C)	10 min	4 hrs	20 hrs

Packaging, Handling & Storage

Shipping Weight (Approximate)	**GP-10, GP-20**	**1's 5 ltrs. (6.3 kg)**
	Thinner #45	**1's 5 ltrs . (4.25 kg)**
Flash Point (Setaflash)	GP-10, GP-20	50ºF (10ºC)
	Thinner #45	105ºF (41ºC)
Storage Temperature & Humidity	35ºF (2ºC) to 110ºF (43ºC), 0-100%	
Shelf Life	12 months minimum at 32° C	

***Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**

carboline®
Protective Coatings and Linings

December 2009 replaces December 2008