

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Aliphatic Acrylic Polyurethane
<b>Description</b>	Carbothane 134 GS is an excellent weatherable finish for exterior exposures in industrial and marine environments. It has wide versatility as a high gloss aesthetically pleasing finish for a variety of exposures. It is an ideal topcoat over epoxy primers or intermediates to enhance appearance and longer term weathering characteristics.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Very good weathering (75% gloss retention after 4000 hours QUV-A exposure)</li> <li>• Exceeds SSPC-Paint Spec 36; Level 3</li> <li>• 6 hours dry to handle time</li> <li>• High gloss appearance</li> <li>• Brush, roll, or spray application</li> <li>• Indefinite recoatability</li> <li>• Minimum 2 hours working time</li> </ul>
<b>Color</b>	Custom colors (Rapid Tint Service)
<b>Finish</b>	High Gloss
<b>Primer</b>	Acceptable primers include Carboguard epoxies.
<b>Dry Film Thickness</b>	38 - 51 microns (1.5 - 2 mils) per coat
<b>Solids Content</b>	By Volume 55% +/- 2%
<b>Theoretical Coverage Rate</b>	21.7 m <sup>2</sup> /l at 25 microns (882 ft <sup>2</sup> /gal at 1.0 mils) 14.4 m <sup>2</sup> /l at 38 microns (588 ft <sup>2</sup> /gal at 1.5 mils) 10.8 m <sup>2</sup> /l at 50 microns (441 ft <sup>2</sup> /gal at 2.0 mils) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : 420 g/l  These are nominal values and may vary slightly with color.
<b>Dry Temp. Resistance</b>	Continuous: 93°C (200°F) Non-Continuous: 121°C (250°F)

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
<b>Steel</b>	Prime with appropriate primers as recommended in section on "Primers".

## PERFORMANCE DATA

Test Method	System	Results
QUV-A	Carbothane 134 GS	Minimum 75% gloss retention after 4000 hours

# Carbothane 134 GS

## PRODUCT DATA SHEET



### MIXING & THINNING

<b>Mixing</b>	Power mix Part A separately, then combine with Part B and power mix. DO NOT MIX PARTIAL KITS.
<b>Thinning</b>	Thinning is not normally required. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.
<b>Ratio</b>	7:1 by volume (Part A to Part B)
<b>Pot Life</b>	4 Hours at 75°F (24°C) and less at higher temps. Pot life ends when coating becomes too viscous to use. MOISTURE CONTAMINATION WILL SHORTEN POT LIFE AND CAUSE GELLATION.

### APPLICATION EQUIPMENT GUIDELINES

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.

<b>Spray Application (General)</b>	The following spray equipment has been found suitable and is available from equipment manufacturers.
<b>Conventional Spray</b>	Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .070" I.D. fluid tip and appropriate air cap.
<b>Airless Spray</b>	*Pump Ratio: 30:1 (min.) GPM Output: 3.0 (min.) Material Hose: 3/8" I.D. (min.) Tip Size: .015-.017" Output PSI: 1800-2200 Filter Size: Remove filters *PTFE packings are recommended and available from the pump manufacturer.
<b>Brush &amp; Roller (General)</b>	Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or rerolling. For best results, tie-in within 10 minutes at 75°F (24°C).
<b>Brush</b>	Use a synthetic bristle brush.
<b>Roller</b>	Use a short-nap mohair roller cover with solvent resistant core.

### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	0%
Maximum	38°C (100°F)	54°C (130°F)	43°C (110°F)	95%

Do not apply when the surface temperature is less than 3°C (5°F) above the dew point. Do not apply if temperatures are expected to drop below 10°C (50°F) within 24 hours of application. Special application techniques may be required above or below normal application conditions.

## CURING PROGRAM

Surface Temp.	Dry to Handle	Dry to Recoat
16°C (60°F)	10 Hours	6 Hours
24°C (75°F)	6 Hours	3 Hours
32°C (90°F)	3 Hours	90 Minutes

These times are based on a 50 microns (2 mil) dry film thickness. Higher film thicknesses, insufficient ventilation, or cooler temperatures will require longer cure times. The material is typically ready to recoat when it passes a "dry to handle" test (thumb twist test).

## PACKAGING, HANDLING & STORAGE

**Shelf Life** | Min. 24 months at 75°F (24°C)  
\*Shelf Life: when kept at recommended storage conditions and in original unopened containers.

**Storage Temperature & Humidity** | 40° -110°F (4°-43°C)  
0-100% Relative Humidity

**Storage** | Store Indoors.

## WARRANTY

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