

## Selection & Specification Data

<b>Generic Type</b>	Modified alkyd enamel
<b>Description</b>	A high gloss alkyd finish that dries to a uniform, touch film. It has very good application properties and can be used over properly primed metal surfaces. Compatible with most alkyd primers. Provides excellent protection in mild environments.
<b>Features</b>	<ul style="list-style-type: none"> <li>- As a finish coat for atmospheric protection of plant equipment, farm equipment, road building machinery, pipe racks, exposed structural steel, tank exteriors and steel buildings</li> <li>- Excellent flexibility</li> <li>- Excellent weathering</li> <li>- Very good abrasion resistance</li> <li>- May be applied over most alkyd primers. Specific recommendations include Carboline GP Primers and Undercoats</li> <li>- Not recommended for immersion service, splash and spillage of acids, alkalies and strong solvents</li> </ul>
<b>Colour</b>	Available in a variety of colours. White and Pastel Shades may require multiple coats for adequate hiding. Consult your local StonCor Africa Sales or Customer Service Department for availability.
<b>Finish</b>	High Gloss
<b>Topcoat</b>	Optional second coat will give a longer service life and may be required when covering dark primers with a light colour topcoat.
<b>Dry Film Thickness</b>	40 Microns
<b>Solids Content</b>	By Volume 40% ± 2% May vary with certain colours
<b>Theoretical Coverage Rate</b>	10m <sup>2</sup> /litre at 40 microns
	<b>NOTE:</b> Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.
<b>Dry Temp Resistance</b>	<b>Non-immersion</b> Continuous                    85°C * Non-continuous            110°C * * Coating may discolour

## Substrates & Surface Preparation

<b>General</b>	Remove any oil and grease from surface to be coated.
<b>Steel</b>	Apply over clean, dry, recommended primers.

November 2016 replaces March 2012

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# Carbocoat® AD-51 Finish

## Application Equipment

**Spray** Use adequate air volume for correct operation.  
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 a 10mm minimum I.D. material hose. Hold gun 300 to 350mm from the surface and at a right angle to the surface.

<u>Mfr &amp; Gun</u>	<u>Fluid Tip</u>	<u>Air Cap</u>
Binks # 18 or # 62	63C	63PB
DeVilbiss P-MBC or JGA	1.8mm	704

**Airless** Use a 10mm minimum I.D. material hose. Hold gun approximately 450 to 500mm from the surface and at a right angle to the surface.

<u>Mfr &amp; Gun</u>	<u>Pump *</u>
DeVilbiss JGB-507	QFA-514
Graco 205-591	President 30:1 or Bulldog 30:1
Binks Model 500	Mercury 5C

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

Use a .015" to .017" tip with 2000 psi (138 bar)

**Brush** Use a medium natural bristle brush.

**Roller** Use a short nap mohair roller with phenolic core.

## Mixing & Thinning

**Mixing** Mix to a uniform consistency before thinning.

**Thinning** Thin up to 10% by volume with Thinner # 85.

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

## Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	10-29°C	13-32°C	13-38°C	30-85%
Minimum	5°C	5°C	5°C	0%
Maximum	49°C	50°C	49°C	95%

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

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

## Curing Schedule

Drying times at 40 microns D.F.T. and 50% relative humidity.

Surface Temp. & 50% Relative Humidity	Between Coats	Final Cure
10°C	36 Hours	7 Days
16°C	24 Hours	5 Days
24°C	16 Hours	3 Days
32°C	12 Hours	2 Days

## Cleanup & Safety

**Cleanup** Use Thinner # 2

**Safety** Read and follow all caution statements on this product data sheet and on the material safety data sheet for this product. Employ normal workmanlike safety precautions.

**Ventilation** When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured.

**Caution** This product contains flammable solvents. Keep away from sparks and open flames.

## Packaging, Handling & Storage

<b>Shipping Weight (Approximate)</b>	Carbocoat AD-51	<b>5 Litre</b>
	Thinner # 85	6kg 4.5kg

<b>Flash Point (Pensky Martens Closed Cup)</b>	Carbocoat AD-51	25°C
	Thinner # 85	35°C

<b>Storage Temperature &amp; Humidity</b>	2 to 43°C
	0 to 100%
	Store indoors

<b>Shelf Life</b>	24 Months minimum when stored at 25°C
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**\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**



Co. Reg. No.: 1996/01848/07  
Tel No: +27 11 254 5500  
Website: [www.carboline.co.za](http://www.carboline.co.za)  
E-mail: [carboline@carboline.com](mailto:carboline@carboline.com)

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