

SELECTION DATA

GENERIC TYPE: Aliphatic acrylic polyurethane Part A and Part B mixed prior to application.

GENERAL PROPERTIES: Carbothane 134 ZA is a glossy, tile-like, attractive topcoat, produces a smooth, slick and hard film which is readily cleaned. Carbothane 134 ZA has very good resistance to splash and spillage of acids, alkalis and most solvents. It exhibits excellent resistance to splash and spillage of salts and water.

- Excellent gloss and colour retention
- Excellent weatherability
- Excellent abrasion resistance
- Excellent flexibility

RECOMMENDED USES: Recommended as a finish coat for exteriors of tanks, equipment, piping, structural steel and concrete surfaces where chemical resistance, toughness and weatherability are required. Carbothane 134 ZA is an excellent coating for use in chemical processing, pulp and paper, petrochemical, offshore drilling and similar demanding industries. Carbothane 134 ZA also finds many applications in areas of heavy marine, institutional and waste treatment where a highly resistant and attractive coating is required.

NOT RECOMMENDED FOR: Immersion service.

TYPICAL CHEMICAL RESISTANCE:

<u>Exposure</u>	<u>Splash & Spillage</u>	<u>Fumes</u>
Acids (1)	Very Good	Excellent
Alkalis (1)	Very Good	Excellent
Solvents (2)	Very Good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

(1) Certain colours may discolour.

(2) Resistance may vary depending on the type of solvent involved.

TEMPERATURE RESISTANCE (non-immersion):

Continuous:	93°C
Non-continuous:	121°C

SUBSTRATES: Can be used over properly primed metals and cementitious surfaces.

COMPATIBLE COATINGS: Can be used over urethane, epoxy and others as recommended, Normally applied over Primers such as Carboguard 893 ZA, and well-cured Carbomastic 15 ZA.

SPECIFICATION DATA

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL:

	<u>By Volume</u>
Carbothane 134 ZA (White)	48% ± 2%

RECOMMENDED DRY FILM THICKNESS PER COAT: *
40 microns

Dry film thicknesses in excess of 80 microns per coat are not recommended.

* **NOTE:** Excessive film thickness will cause gassing and poor film appearance.

THEORETICAL COVERAGE: *

12m²/lt at 40 microns

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

COLOURS: 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.

* **NOTE:** Some colours of Carbothane 134 ZA may require two coats to hide when applied over darker surfaces.

GLOSS: High gloss.

SHELF LIFE: Part A: 36 Months minimum when stored at 25°C
Part B: 24 Months minimum when stored at 25°C

NOTE : Polyurethane materials are moisture sensitive. Keep tightly covered before use. Moisture contamination will cause poor cure of the coating or gelation of Part B.

ORDERING INFORMATION

Prices may be obtained from your StonCor Africa Sales Representative or StonCor Africa Customer Service.

APPROXIMATE SHIPPING WEIGHT:

	<u>5L</u>
Carbothane 134 ZA	7,0 kg
Carboline Thinner # 25	4,9 kg

FLASH POINT (Pensky-Martens Closed Cup):

Carbothane 134 ZA Part A	17°C
Carbothane 134 ZA Part B	33°C
Carboline Thinner # 25	23°C

April 2013 SA replaces November 2012 SA

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.

STEEL: Apply over clean, dry recommended primers and/or tie coats.

CONCRETE: Apply over clean, dry recommended primers or surfacers.

MIXING: Mix separately, then combine and mix in the following proportions: Do not mix partial kits.

	<u>5lt Kit</u>
Carbothane 134 ZA Part A	4,375lt
Carbothane 134 ZA Part B	0,625lt

THINNING: Thin up to 25% by volume with Carboline Thinner # 25 for normal spray or brush application.

NOTE: Substitute thinners may contain alcohols which will inhibit the cure of Carbothane 134 ZA. Use of thinners other than those supplied or approved by StonCor Africa may adversely affect product performance and void product warranty, whether express or implied.

POT LIFE: 4 Hours at 25°C and less at higher temperatures. Pot life ends when the material becomes too viscous to use.

APPLICATION CONDITIONS:

	<u>Material</u>	<u>Surfaces</u>	<u>Ambient</u>	<u>Humidity</u>
Normal	18-29°C	18-29°C	16-29°C	35-80%
Minimum	10°C	10°C	10°C	0%
Maximum	43°C	54°C	49°C	85%

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.

SPRAY APPLICATION: 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 a 10mm minimum I.D. material hose, 0,043" I.D. fluid tip and appropriate air cap. Hold approximately 300 to 350mm from surface and at a right angle to the surface.

AIRLESS:	
Pump Ratio	30:1 (min)*
Material Hose	10mm I.D. (min)
Tip Size	0,013 to 0,015"
Output psi	2100 to 2300 (145-159 Bar)
Filter Size	60-100 mesh

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

BRUSH: Brushing recommended only for touch-up of small areas. Use natural bristle brush applying with full strokes. Avoid rebrushing.

ROLLER: For roller application, use a short nap mohair roller with phenolic core. Avoid rerolling.

DRYING TIMES: These times are based on recommended dry film thickness of 40 microns. Higher film thicknesses will lengthen cure times.

Surface Temp	Dry to Handle	Final Cure
16°C	6 Hours	10 Days
24°C	3 Hours	1 Week
32°C	1½ Hours	5 Days

RAIN RESISTANCE: Requires a minimum cure of three hours at 25°C and longer at lower temperatures. Surface moisture before this time will decrease the gloss.

CLEAN-UP: Use Carboline Thinner # 2.

CAUTION: Read and follow all caution statements on this product data sheet and on the material safety data sheet for this product.

STORAGE CONDITIONS (store indoors):

Temperature	4 to 43°C
Humidity	0 to 90%

CAUTION: MAY CONTAIN 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 ELECTRONIC 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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