

SELECTION DATA

GENERIC TYPE: Modified epoxy-phenolic, amine adduct cured. Part A and B mixed prior to application.

GENERAL PROPERTIES: A high build, cost-effective, tank lining system generally consisting of three coats and exhibiting excellent chemical resistance. Easy to apply by spray. FDA acceptable for direct food contact surfaces (21 CFR 175.300)

RECOMMENDED USES: Used as an interior lining to protect steel tanks or other storage vessels containing corrosive chemicals or to maintain product purity.

NOT RECOMMENDED FOR: Continuous immersion in water over 54°C, strong mineral and organic acids.

TYPICAL CHEMICAL RESISTANCE:

<u>Exposure</u>	<u>Immersion</u>
Acids/Mineral	Good
Alkalies	Excellent
Solvents	Good-Excellent
Salt	Excellent
Water	Excellent

TEMPERATURE RESISTANCE (non-immersion):

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

Immersion temperature resistance depends on exposure. Consult StonCor Africa Sales or Technical Service Department for specific cargo and temperature recommendations. Metal tanks must be insulated when operating temperatures exceed 60°C.

FLEXIBILITY: Fair

WEATHERING: Excellent (chalks)

ABRASION RESISTANCE: Very good.

SUBSTRATES: Apply over suitably prepared steel or others as recommended.

TOPCOAT REQUIRED: None for Carboguard 187 Finish ZA. Carboguard 187 Primer ZA may be topcoated with epoxies, modified phenolics or other generic types as recommended.

COMPATIBLE COATINGS: Carboguard 187 Finish ZA may be applied over catalyzed epoxies, phenolics or other generic types as recommended. Apply Carboguard 187 Primer ZA directly to properly prepared substrate.

SPECIFICATION DATA

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL:

	<u>By volume</u>
Carboguard 187 Primer & Finish ZA	67% ± 2%

RECOMMENDED DRY FILM THICKNESS PER COAT AND SYSTEM :

1 coat Carboguard 187 Primer ZA @ 125 microns.
2 coats Carboguard 187 Finish ZA @ 125 microns per coat.

THEORETICAL COVERAGE*:

5.4m²/l at 125 microns

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

SHELF LIFE: 24 months minimum when stored at 25°C.

COLOURS:

Primer- Red only,
Finish- White and Tank Lining Grey only.

GLOSS: Low

ORDERING INFORMATION

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

APPROXIMATE SHIPPING WEIGHT :

	<u>5L</u>
Carboguard 187 ZA (Primer & Finish)	7.7 kg
Carboline Thinner # 25	4.9 kg

FLASH POINT: (Pensky-Martens Closed Cup)

Carboguard 187 Finish ZA Part A	24°C
Carboguard 187 Primer ZA Part A	24°C
Carboguard 187 ZA Part B	29°C
Carboline Thinner # 25	23°C

March 2012 SA replaces June 2010 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, prior to abrasive blast cleaning.

STEEL: IMMERSION SERVICE: Abrasive blast to a White Metal Finish in accordance with ISO 8501 Sa 3 to obtain a 40 - 75 micron blast profile. For non-immersion service: Abrasive blast to a Commercial Grade Finish in accordance with ISO 8501 Sa 2 to obtain a 50-75 micron blast profile.

MIXING: Power mix separately, then combine and power mix in the following proportions:

	<u>5 L Kit</u>
Carboguard 187 ZA	4 L
Primer or Finish Part A	1 L
Carboguard 187 ZA Part B	1 L

THINNING: May be thinned up to 25% with Carboline Thinner #25

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

INDUCTION: 30 – 45 minutes at 25°C induction time may be allowed to reduce the possibility of surface haze or blush.

POT LIFE: Four hours at 25°C and less at higher temperatures. Pot life ends when coating loses body and begins to sag.

APPLICATION TEMPERATURES:

	<u>Material</u>	<u>Surfaces</u>	<u>Ambient</u>	<u>Humidity</u>
Normal	18-29°C	18-29°C	18-29°C	30-60%
Minimum	13°C	10°C	10°C	0%
Maximum	32°C	43°C	38°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: Use sufficient air volume for the 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 spray equipment has been found suitable, however, equivalent equipment may be substituted.

Conventional: Use 10 mm minimum I.D. material hose, hold gun approximately 300-350 mm from the surface and at right angles to the surface.

Mfr. & Gun

Binks #18 or #62
DeVilbiss P-MBC
or JGA

Fluid Tip

63 C
FF (Approx. .052 ID)

Air Cap

63PB
704

AIRLESS: Use 10 mm minimum I.D. material hose. Hold gun approximately 250-300 mm from the surface and at right angles to the surface.

Mfr. & Gun

DeVilbiss JGB-507
Graco 205-591
Binks model 700

Pump *

QFA-514 or QFA-519
President 30:1 or Bulldog 30:1
B5-18 29:1 or B8-36 37:1

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

Use a .015-.019" tip with 2200 psi (152 bar)

BRUSH OR ROLLER: Recommended for touch-up or small areas only.

DRYING TIMES:

Between Coats

16°C	2 days
25°C	24 hours
32°C	12 hours

Final Cure

16°C	28 days
25°C	15 days
32°C	7 days

Application below 16°C for tank linings is not recommended.

Force cure is recommended for tank linings.

Excessive film thickness or poor ventilating conditions require longer dry times and could result in premature failure in extreme cases.

NOTE: Excessive humidity or condensation on the surface during curing may result in a surface haze or blush; any haze or blush should be removed by washing with soapy water and rinsing before recoating.

VENTILATION & SAFETY: WARNING: VAPOURS MAY CAUSE EXPLOSION.

When used as a tank lining or in enclosed areas, thorough air circulation must be present during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapour concentration from reaching the lower explosion limit for the solvents used. In addition, fresh air respirators or fresh air hoods must be used by all application personnel. Non-sparking shoes, non-conductive equipment and clothing must be used. Explosion-proof lighting equipment must be used. Hypersensitive persons should wear clean protective clothing, gloves and/or protective cream on face, hands and all exposed areas.

CLEAN UP: Use Carboline Thinner # 2.

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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