

SELECTION & SPECIFICATION DATA

Generic Type	Single package non-isocyanate (NISO) vinyl copolymer
Description	Carboclad 938 HB is a high build, low gloss, chemical resistant coating which is easy to apply, fast drying, with good weathering properties.
Features	<ul style="list-style-type: none">• Protection of structural steel, pipe and tank exteriors• Good flexibility• Very good weathering• Good abrasion resistance• Not recommended for solvent exposure or immersion service• May be applied over vinyl epoxy as well as zinc rich primers
Color	Grey only
Finish	Flat
Dry Film Thickness	75 Microns
Solid(s) Content	By Volume 38% ± 2%
Theoretical Coverage Rates	5.1m ² /litre at 75 microns NOTE: Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.
Dry Temp. Resistance	Continuous: 50°C (122°F) Non-Continuous: 66°C (151°F)
Topcoats	May be topcoated with vinyls, acrylics or others as recommended.

SUBSTRATES & SURFACE PREPARATION

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

MIXING & THINNING

Mixing	Power mix to a smooth consistency before thinning.
Thinning	Thin up to 12% by volume with Thinner # 10. 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 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.

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.
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Carboclad 938HB

PRODUCT DATA SHEET



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.

Conventional Spray | Use a 10mm minimum I.D. material hose. Hold gun 300 to 350mm from the surface and at a right angle to the surface.
Gun:905 Spray Gun
Fluid Tip:1.8mm
Air Cap:905-PV

Airless Spray | 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.
Gun:TRITECH T360 Spray Gun
Pump:47:1

* Teflon packings are recommended and are available from the pump manufacturer.
Use a .017" to .021" tip with 2000 psi (138 bar).

Brush | Use a natural bristle brush, applying with full strokes. Avoid rebrushing.

Roller | Not recommended.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	4°C (39°F)	4°C (39°F)	4°C (39°F)	0%
Maximum	38°C (100°F)	43°C (109°F)	43°C (109°F)	95%
Optimum	24°C (75°F)	24°C (75°F)	25°C (77°F)	45%

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

Surface Temp.	Dry to Handle or Topcoat
4°C (39°F)	24 Hours
10°C (50°F)	18 Hours
16°C (61°F)	10 Hours
25°C (77°F)	5 Hours
32°C (90°F)	3 Hours

Curing Details | **Relative Humidity: 50%**

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.

CLEANUP & SAFETY

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

PACKAGING, HANDLING & STORAGE

Shelf Life	24 Months minimum when stored at 25°C *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Shipping Weight (Approximate)	5 Litre: Carboclad 938HB: 7.1kg Thinner # 10: 4.9kg
Storage Temperature & Humidity	4 to 43°C 0 to 100% Store indoors
Flash Point (Pensky Martens Closed Cup)	Carboclad 938HB: 23°C Thinner # 10: 24°C

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.