

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Aliphatic Acrylic Polyurethane
<b>Description</b>	Thin film, high gloss finish with exceptional weathering performance characteristics. Used extensively in virtually all industrial markets including marine exposure where ultra durable colours are desired. Carbothane 130 Clear Coat provides a smooth, high gloss durable finish that provides superior resistance to colour fade of basecoats.
<b>Features</b>	<ul style="list-style-type: none"> <li>• High solids, low VOC content</li> <li>• Excellent weatherability</li> <li>• Advanced HALS &amp; UV absorber technology</li> <li>• Superior impact and abrasion resistance</li> <li>• Excellent chemical resistance</li> <li>• Excellent resistance to graffiti removers</li> <li>• Tested and in compliance to Main Roads WA - Specification 908 and NZTA (Waka Kotahi) - Specification S10 for Anti-Graffiti Coatings (refer to "Approvals NZ/AU" section)</li> <li>• Approved for use in food &amp; dairy processing plants (refer to "Approvals NZ/AU" section)</li> </ul>
<b>Colour</b>	Clear
<b>Finish</b>	High Gloss
<b>Dry Film Thickness</b>	51 - 76 microns (2 - 3 mils) per coat
<b>Solids Content</b>	By Volume 60% +/- 2%
<b>Theoretical Coverage Rate</b>	23.6 m <sup>2</sup> at 25 microns (962 ft <sup>2</sup> at 1.0 mils) 11.8 m <sup>2</sup> at 50 microns (481 ft <sup>2</sup> at 2.0 mils) 7.9 m <sup>2</sup> at 75 microns (321 ft <sup>2</sup> at 3.0 mils) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : 370 g/l  These are nominal values.
<b>Dry Temp. Resistance</b>	Continuous: 93°C (199°F) Non-Continuous: 121°C (250°F)  Discolouration of coloured basecoat and loss of gloss may observed above 93°C.
<b>Substrates &amp; Compatible Coatings</b>	Apply over tinted Carboguard 2929, Carbothane or E~Line finish coats, or other surfaces as recommended by Carboline Technical Services.

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Apply over Carboguard 2929, Carbothane or E~Line topcoats that are clean and dry, and within the recoat window. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. For all surfaces prime with specific Carboline primer as recommended by your Carboline sales representative. Refer to the specific primer's Product Data Sheet for detailed requirements of the specified primer.
<b>Previously Painted Surfaces</b>	Consult Carboline Technical Services for information.

# Carbothane 130 Clear Coat

## 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>	<ul style="list-style-type: none"><li>• Spray: Up to 20% with Thinner #25</li><li>• Brush: Up to 20% with Thinner #22</li><li>• Roller: Up to 20% with Thinner #22</li></ul> 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>	4:1 Ratio (A to B)
<b>Pot Life</b>	<b>Thinned ready for application:</b> 6 Hours at 24°C and less at higher temperatures. 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>	This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as DeVilbiss and Graco.
<b>Conventional Spray</b>	Pressure pot equipped with dual regulators, 9.5 mm (3/8") I.D. minimum material hose, 1.2 to 1.8 mm (.047 to .070") I.D. fluid tip and appropriate air cap.
<b>Airless Spray</b>	Not normally applied by Airless Spray. Pump Ratio: 30:1 (min.)* Output: 10 lt/min (min.) Material Hose: 9mm (3/8") I.D. (min.) Tip Size: .013-.017" Output PSI: 2100-2400 Filter Size: 60 mesh *Teflon packings are recommended and available from the pump manufacturer.
<b>Brush &amp; Roller (General)</b>	Multiple coats may be required to obtain desired appearance, and recommended dry film thickness. Avoid excessive re-brushing or rerolling. For best results, tie-in within 10 minutes at 24°C.
<b>Brush</b>	Recommended for touch-up only. Use a medium, natural bristle brush and avoid excessive rebrushing.
<b>Roller</b>	Use a short nap mohair roller cover with phenolic core and avoid excessive re-rolling.

### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	2°C (36°F)	2°C (36°F)	10%
Maximum	38°C (100°F)	49°C (120°F)	35°C (95°F)	80%

Industry standards are for substrate temperatures to be above the dew point. **Caution:** This Product is moisture sensitive in the liquid stage and until fully cured. Protect from high humidity, dew and direct moisture contact until fully cured. Application and/or curing in humidities above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or microbubbling of the product.

## CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat Minimum	Dry to Recoat Maximum
5°C (41°F)	36 Hours	12 Hours	24 Hours
15°C (59°F)	16 Hours	12 Hours	24 Hours
24°C (75°F)	6 Hours	8 Hours	24 Hours
32°C (90°F)	4 Hours	4 Hours	24 Hours

These times are based on a 50 micron dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. **NOTE - Exceeding the Dry to Recoat Maximum Window:** Surface must be clean and dry. As part of good painting practice it is recommended to test for adhesion by wiping the surface with Thinner #25. If the film shows a slight "tack" the surface is suitable for recoating without extensive surface preparation such as abrading.

## APPROVALS

### Approvals NZ/AU

#### Non-Sacrificial Anti-Graffiti Coating:

Tested in accordance with 'Main Roads WA - Specification 908 (Document 6706-02-2238, Issue March 2018) Test Method for Anti-Graffiti Products' Section 5 for 'Method for assessing the effectiveness of Non-Sacrificial Anti-Graffiti Coatings' and 'NZTA (Waka Kotahi) - Specification S10 for Anti-Graffiti Coatings'

#### Food Processing - New Zealand

AssureQuality® assessed for food/beverage industry including dairy factory and dairy farm non-incident contact (assessment reference number: h3110b).

## CLEANUP & SAFETY

### Cleanup

Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

### Safety

Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

### Ventilation

This product contains iso-cyanate  
When used in enclosed areas it is mandatory to wear a full face mask and air-fed respirator. Thorough air circulation must be used 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. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use suitable approved supplied air respirator.

### Caution

This product contains iso-cyanate.  
This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the local electrical code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

## PACKAGING, HANDLING & STORAGE

**Packaging** | 1.25 and 5 litre kits

# Carbothane 130 Clear Coat

## PRODUCT DATA SHEET



### PACKAGING, HANDLING & STORAGE

<b>Shelf Life</b>	Part A: 36 months at 24°C Part B: 12 months at 24°C
	Shelf Life:(actual stated shelf life) when kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.
<b>Storage Temperature &amp; Humidity</b>	4°-43°C 0-80% Relative Humidity
<b>Flash Point (Setaflash)</b>	Mixed: 24°C
<b>Shipping Weight (Approximate)</b>	5 litre kit - 5.3 kg 1.25 litre kit - 1.4 kg
<b>Storage</b>	Store Indoors

### WARRANTY

Manufactured and / or distributed in Australia & New Zealand by Altex Coatings under license to Carboline Company. 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 Altex Coatings to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY ALTEX COATINGS OR 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. Altex Terms and Conditions of Trade, available at [www.altexcoatings.com](http://www.altexcoatings.com), apply in respect of all coating products and materials supplied, including samples.