

SELECTION & SPECIFICATION DATA

Generic Type	Clear Aliphatic Acrylic Polyurethane with HALS and UV absorber technology.
Description	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 base-coats. *Tested and approved graffiti-resistant coating.
Features	<ul style="list-style-type: none"> • High solids, low VOC content • Excellent weatherability • Advanced HALS & UV absorber technology • Superior impact and abrasion resistance • Excellent chemical resistance • Excellent resistance to graffiti removers • *Approved graffiti resistant coating (see "Approvals NZ/AU", page 4)
Colour	Clear (0910)
Finish	High Gloss (85-100)
Primer	Usually applied over existing Carbothane® or E~Line® finishes to enhance weatherability and / or graffiti resistance *E~line is the registered trademark of Altex Coatings Limited
Dry Film Thickness	51 - 76 microns (2 - 3 mils) per coat
Solids Content	By Volume 60% +/- 2%
Theoretical Coverage Rate	23.6 m ² at 25 microns (962 ft ² at 1.0 mils) 11.8 m ² at 50 microns (481 ft ² at 2.0 mils) 7.9 m ² at 75 microns (321 ft ² at 3.0 mils) Allow for loss in mixing and application.
VOC Values	As Supplied : 370 g/l These are nominal values.
Dry Temp. Resistance	Continuous: 93°C (199°F) Non-Continuous: 121°C (250°F) Discolouration of coloured base-coat and loss of gloss may be observed above 93°C.
Substrates & Compatible Coatings	Apply over tinted Carbothane or E~Line finish coats, or other surfaces as recommended by Carboline Technical Services. *E~line is the registered trademark of Altex Coatings Limited

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. 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.
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Carbothane 130 Clear Coat

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Previously Painted Surfaces	Lightly sand or abrade to roughen and degloss the surface. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test. When in doubt consult Carboline Technical Services for information.
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MIXING & THINNING

Mixing	Power mix Part A separately, then combine with Part B and power mix. DO NOT MIX PARTIAL KITS.
Thinning	<ul style="list-style-type: none">• Spray: Up to 20% with Thinner #25• Brush: Up to 20% with Thinner #22• Roller: Up to 20% with Thinner #22 Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.
Ratio	4:1 Ratio (A to B)
Pot Life	Thinned ready for application: 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.

Spray Application (General)	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.
Conventional Spray	Pressure pot equipped with dual regulators, 9.5 mm (3/8") I.D. minimum material hose, 1.2 to 1.8 mm (.070") I.D. fluid tip and appropriate air cap.
Airless Spray	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.
Brush & Roller (General)	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.
Brush	Recommended for touch-up only. Use a medium, natural bristle brush and avoid excessive rebrushing.
Roller	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

Curing Details	<ul style="list-style-type: none"> • 5°C: To handle 36 hours; min-max* re-coat window 12-24 hours; final cure 14 days • 15°C: To handle 16 hours; min-max* re-coat window 12-24 hours; final cure 10 days • 24°C: To handle 36 hours; min-max* re-coat window 8-24 hours; final cure 5 days • 32°C: To handle 4 hours; min-max* re-coat window 4-24 hours; final cure 3 days
	<p>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.</p> <p>*Maximum Dry to Recoat 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.</p>

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.

Carbothane 130 Clear Coat

PRODUCT DATA SHEET



PACKAGING, HANDLING & STORAGE

Shelf Life	Part A: Min.: 36 months at 24°C Part B: Min.: 24 months at 24°C *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Shipping Weight (Approximate)	5 litre Kit - 5.3 1¼ litre Kit - 1.4 kg
Storage Temperature & Humidity	4°-43°C 0-80% Relative Humidity
Flash Point (Setaflash)	Mix: 24°C
Storage	Store Indoors
Packaging	1¼ and 5 litre 2 component kits

APPROVALS

Approvals NZ/AU	Permanent Graffiti Resistant Coating: Approved by NZ Transport Agency; Auckland Motorways Authority (NZTA / AMA). Ref: AMA Approved Anti-Graffiti Products - Issued 10 May 2010 Tested and listed under former name "E-Line 379"
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WARRANTY

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