

SELECTION & SPECIFICATION DATA

Generic Type	Aliphatic Acrylic Polyurethane
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 basecoats.
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 • Tested and Approved graffiti resistant coating (refer to "Approvals NZ/AU" section) • Approved for use in food & dairy processing plants (refer to "Approvals NZ/AU" section)
Colour	Clear
Finish	High Gloss
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 basecoat and loss of gloss may observed above 93°C.
Substrates & Compatible Coatings	Apply over tinted Carboguard 2929, Carbothane or E~Line finish coats, or other surfaces as recommended by Carboline Technical Services.

SUBSTRATES & SURFACE PREPARATION

General	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.
Previously Painted Surfaces	Consult Carboline Technical Services for information.

Carbothane 130 Clear Coat

PRODUCT DATA SHEET



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 (.047 to .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

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.

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
Shelf Life	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.
Storage Temperature & Humidity	4°-43°C 0-80% Relative Humidity
Flash Point (Setaflash)	Mixed: 24°C
Shipping Weight (Approximate)	5 litre kit - 5.3 kg 1.25 litre kit - 1.4 kg

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PRODUCT DATA SHEET



PACKAGING, HANDLING & STORAGE

Storage | Store Indoors

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"

Food Processing - New Zealand

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

WARRANTY

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