

PRODUCT DATA SHEET

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, 134 HG provides a smooth, durable finish that has superior resistance to corrosion, abrasion and chemical exposure.

- · High solids, low VOC content
- · Excellent weatherability
- Exceeds SSPC Paint 36 specification for a Level 3 urethane

Features

- Conforms to the requirements of AS/NZS 3750.6:2009, Type 1 "Paints for Steel Structures Full Gloss Polyurethane (two pack)"
- Approved for use in food & dairy processing plants (refer to "Approvals NZ/AU" section)
- · Excellent flow characteristics allow for application by spray or roller
- · Superior impact and abrasion resistance
- · Indefinite recoatability

Colour

· NZ Standard: White, Black, & Golden Yellow

- AU Standard: White, & Golden Yellow
- AU/NZ Tinted: Available in most British Standard, AS 2700, Resene colours and custom tints.

Finish | Gloss

Primer Refer to Substrates & Surface Preparation.

Film Build | 50 - 75 microns dry per coat

Solid(s) Content | By Volume 70% +/- 2%

Theoretical Coverage Rates

14 m²/litre at 50 microns dry 9.3 m²/litre at 75 microns dry

Allow for loss in mixing and application.

VOC Values

As Supplied: 264 g/l

Thinner 25: 20% v/v 366 g/l

These are nominal values and may vary slightly with color.

Dry Temp. Resistance

Continuous: 149°C (300°F)

Some discoloration and loss of gloss may be experienced at elevated temperatures.

Limitations

Application method (ie spray v brush) may affect final colour tone and texture; care must be taken to keep conditions as constant as possible to reduce variations in final appearance. It is also advisable to work from a single batch of material since variations can occur from batch to batch. For more information consult Carboline Technical Service Department.

Topcoats

Carbothane 130 Clear Coat when required for graffiti resistance (NZTA/AMA approved) or extreme weatherability

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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 and / or undercoat with specific Carboline coating as recommended in the relevant Coating Specification. Refer to the specific primer or undercoat Product Data Sheet for detailed requirements.

Galvanised Steel

Prime with specific Carboline primer as recommended by your Carboline Sales Representative. Refer to the specific primer's Product Data Sheet for substrate preparation requirements.

Previously Painted Surfaces

Lightly sand to roughen and degloss the surface. Existing paint must attain a minimum 3A rating in accordance with ASTM D3359 "XScribe" adhesion test. Prime with specific Carboline primers as recommended by your Carboline Sales Representative or Carboline specification.

MIXING & THINNING

Mixina

Power mix Part A separately, then combine with Part B and power mix. DO NOT MIX PARTIAL KITS.

Spray: Up to 20% w/ Thinner #25 Brush: Up to 20% w/ Thinner #22 Roller: Up to 20% w/ Thinner #22

Thinning

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

4 Hours at 24°C and less at higher temps. Pot life ends when coating becomes too viscous to use. MOISTURE CONTAMINATION WILL SHORTEN POT LIFE AND CAUSE GELLATION.

Induction Time

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 micro-bubbling of the product. If pinholes or bubbles occur, an induction or sweat-in time of 30-60 minutes is recommended.

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. Spray equipment is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray

Pressure pot equipped with dual regulators, 9.5 mm (3/8") I.D. minimum material hose, 1.8 mm (0.070") I.D. fluid tip and appropriate air cap.

*Pump Ratio: 30:1 min. Output: 11 lt/minute min.

Material Hose: 9.5 mm (3/8") I.D. min.

Airless Spray

Tip Size: 0.015-0.017" Output PSI: 2100-2400 Filter Size: 60 mesh

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



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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.

Brush & Roller (General)

Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or rerolling. For best results, tie-in within 10 minutes at 24°C.

Brush | Recommended for touch-up and small areas only. Use a medium, natural bristle brush.

Roller Use a short-nap mohair roller cover with phenolic core.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	2°C (36°F)	2°C (36°F)	0%
Maximum	38°C (100°F)	49°C (120°F)	35°C (95°F)	80%

Industry standards are for substrate temperatures to be above 3°C the dew point.

Caution: This product is moisture sensitive in the liquid stage and until fully cured. Protect from high humidity, dew and 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 micro-bubbling of the product. If pinholes or bubbles occur, an induction or sweat- in time of 30-60 minutes is recommended.

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat & Topcoat w/ other finishes	Final Cure General
2°C (35°F)	36 Hours	36 Hours	14 Days
10°C (50°F)	16 Hours	16 Hours	10 Days
24°C (75°F)	8 Hours	8 Hours	7 Days
32°C (90°F)	4 Hours	4 Hours	5 Days

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.

Polyurethane Accelerator can be used to accelerate the film forming process in this product for conditions outside of the parameters of this data sheet. Polyurethane Accelerator is added at a rate of 5 ml per mixed litre or a maximum of 25 ml per mixed five litres. At this addition rate, Polyurethane Accelerator will accelerate the cure rate of the urethane product between 25-40% depending on the substrate temperature range and reduce the pot life of the product by approximately 40-50% of that stated on the product data sheet. With the use of Polyurethane Accelerator, this product will continue to cure at temperatures as low as -7°C.

APPROVALS

Approvals NZ/AU

Food Processing - New Zealand

AsureQuality® assessed for food/beverage industry including dairy factory and dairy farm non-incidental contact (assessment reference number: h3112).

CLEANUP & SAFETY

Cleanup

Use Thinner #2, #25 or Acetone. In case of spillage, dispose of in accordance with local applicable regulations.

^{*}Maximum self-recoat times are indefinite. 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.

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CLEANUP & SAFETY

Safety

Read and follow all caution statements on this product data sheet and on the MSDS for this product and use personal protective equipment as directed.

Contains iso-cyanate. When sprayed may be harmful by inhalation - do not breathe vapour or spray. Wear suitable clothing, gloves, eye and face protection, including suitable breathing protection such as an air supplied respirator or hood.

Ventilation

When used in enclosed areas, 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 able to monitor levels, use suitable approved air-fed respirator.

PACKAGING, HANDLING & STORAGE

Part A: 36 months at 24°C

Part B: 12 months at 24°C

Shelf Life

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)

Carbothane 134 HG Part A: 10°C Carbothane 134 HG Part B: 41°C

Shipping Weight (Approximate)

5 Litre Kit - 6.6 kg 10 Litre Kit - 13.2 kg

Store Indoors.

Storage

This product is solvent based and not affected by excursions below these published storage temperatures, down to -10°C, for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.

WARRANTY

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