

SELECTION & SPECIFICATION DATA

Generic Type	Polyamido-Amine Epoxy
Description	Penetrating primer/sealer for use on concrete substrates and Carboline Pyrocrete Fireproofing products. It performs extremely well in sealing cementitious surfaces and is designed to receive a variety of different generic types of finish coats. Some recommended uses of 1340 include the use as a curing compound or form release agent. When applied to "green" concrete it will retard the escape of moisture during the cure period. It is also excellent for use as a form release coating on plywood or steel forms.
Features	<ul style="list-style-type: none"> • Exceptional wetting characteristics • Low stress, highly flexible film • Very high solids • Low odour • Approved for use in food & dairy processing plants (refer to "Approvals NZ/AU" section) • Compatibility with other coatings & membranes makes 1340 ideal for use as a curing membrane in concrete tanks & bunds • Also used as moisture barrier coating over Thermo-Lag EPFP systems • User-friendly brush & roller application
Colour	Clear Amber (0910)
Finish	Gloss
Primer	Self-priming. May be applied over most generic types of coatings.
Dry Film Thickness	25 - 51 microns (1 - 2 mils) per coat Product can be applied up to 100 microns for sealing rough surfaces or shot-blasted concrete. When used as a curing and/or form release agent, it may be applied up to 250 microns wet.
Solids Content	By Volume 98% +/- 2%
Theoretical Coverage Rate	38.6 m ² at 25 microns (1572 ft ² at 1.0 mils) 19.3 m ² at 50 microns (786 ft ² at 2.0 mils) Allow for loss in mixing and application.
VOC Values	As Supplied : 24g/l per EPA Method 24 These are nominal values
Dry Temp. Resistance	Continuous: 80°C (176°F) Non-Continuous: 93°C (199°F)
Limitations	<ul style="list-style-type: none"> • Epoxies lose gloss, discolour and eventually chalk in sunlight exposure. • Do not use standalone for immersion service.
Topcoats	May be coated with Acrylics, Epoxies, or Polyurethanes depending on exposure and need.

SUBSTRATES & SURFACE PREPARATION

General	Prepare substrate accordingly to NACE No.6 / SSPC-SP 13 (TABLE 1: Acceptance Criteria). Compatibility with other coatings, surfacers and polyurethane membranes eliminates need for form release oils or curing oils. Note that porous and irregular substrates like concrete and fireproofing will affect coverage rates.
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Carboguard 1340

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

As a Curing Membrane	While 1340 may be applied to green concrete, generally additional coats or other coatings should not be applied until the concrete has cured 28 days at 24°C and 50% relative humidity or equivalent. Application of a test patch is recommended prior to topcoating to confirm proper adhesion.
Concrete or CMU	Surfaces must be clean and dry. Either sweep abrasive blast or diamond grind (or similar) to abrade substrate and achieve a finish similar in texture to 80 grit paper. Ensure all surfaces are free of all contaminants and form release agents.
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.
Carboline Fireproofing Products	Carboguard 1340 is an approved sealer/topcoat for Carboline's Pyrocrete & Thermo-Lag fireproofing products. Contact Carboline Technical Service for specific applications and requirements.

MIXING & THINNING

Mixing	Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.
Thinning	Normally not required but to aid penetration and/or extend pot-life may be thinned up to 20% with Thinner #76. 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	2:1 Ratio (A to B)
Pot Life	45 minutes at 24°C. Pot life will be less at higher temperatures. See Caution notes in "Cleanup & Safety" regarding possible exotherm.

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)	Contact Carboline Technical Service for spray equipment and technique.
Brush & Roller (General)	Avoid excessive re-brushing or re-rolling. Apply only enough material to wet the surface uniformly. Any puddles formed must be brushed out.
Brush	Use a medium bristle brush.
Roller	Use a medium or long-nap synthetic roller cover with phenolic core.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	16°C (61°F)	10°C (50°F)	10°C (50°F)	0%
Maximum	32°C (90°F)	54°C (129°F)	38°C (100°F)	90%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can affect cure. Special application techniques may be required above or below normal application conditions. Where possible, to reduce bubbling/pinholing on concrete, apply 1340 when concrete surface is in cooling phase; avoid application on cool surfaces that may be immediately subject to subsequent heating.

CURING SCHEDULE

Surface Temp.	Dry to Handle or Topcoat	Final Cure General	Maximum Recoat Time w/ Solvent Borne	Maximum Recoat Time w/ Water Borne
10°C (50°F)	24 Hours	9 Days	30 Days	14 Days
24°C (75°F)	12 Hours	6 Days	30 Days	14 Days
32°C (90°F)	6 Hours	3 Days	15 Days	7 Days

These times are based on 50% relative humidity and 25-50 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. Excessive humidity or condensation on the surface during cure can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush **must** be removed by water washing before recoating. During high humidity conditions, it is recommended that the application be done while temperatures are increasing. If the maximum recoat time is exceeded, the surface must be abraded by sweep blasting or sanding before the application of additional coats.

Surface Temp.	Dry to Handle	Final Cure
24°C (75°F)	5 Hours	6 Days

The table above is the curing schedule for **Curing/Form Release Agent**. These times are based on 50% relative humidity and 125-250 microns dry film thickness.

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 SDS for this product. Employ normal workmanlike safety precautions.
Ventilation	When used in enclosed areas and product is thinned, 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 respirator.
Caution	<i>This product exotherms at the end of its pot life. Any unused quantities will become extremely hot. The material begins to thicken at the end of its pot life, which is an indication of exotherm. Immediately spread out on an appropriate surface or add sand or other suitable heat sink to the unused material to reduce the severity of exotherm. Take appropriate precautions against breathing fumes.</i> This product when thinned 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.

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PACKAGING, HANDLING & STORAGE

Packaging	<u>6 litre kit:</u> <ul style="list-style-type: none">• Part A: 4 litres• Part B: 2 litres
Shelf Life	Part A: 48 months at 24°C Part B: 24 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 0-90% Relative Humidity
Flash Point (Setaflash)	Part A: >96°C Part B: >96°C
Shipping Weight (Approximate)	6 litre Kit: 7.9 kg
Storage	Store indoors. KEEP DRY

APPROVALS

Approvals NZ/AU	<u>Food Processing - New Zealand</u> AsureQuality® assessed for food/beverage industry including dairy factory and dairy farm non-incident contact (assessment reference number: h3109). <u>AS/NZS 4020:2005 Testing of products in contact with drinking water</u> Australian Water Quality Centre - Report ID: 232791 (06/09/2018).
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WARRANTY

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