product data

Carboguard® 1340
and Pyrocrete® 1340

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. Meets the requirements of ASTM C309 when applied at 125-250 microns wet.

Features
- Exceptional wetting characteristics
- Low stress, highly flexible film
- Very high solids
- Low odour
- User-friendly brush & roller application
- VOC compliant to current AIM regulations

Finish
Gloss

Colour
Clear Amber (0910)

Primers
Self-priming. May be applied over most generic types of coatings.

Topcoats
Acrylics, Epoxies, Polyurethanes

Dry Film Thickness
25 - 50 microns DFT for most applications but 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
38.5 m^2/l at 25 microns. Allow for loss in mixing and application. Porous and irregular substrates like concrete/fireproofing reduce coverage rates and should be taken into account.

Mix Ratio
1:1 by volume (Part A : Part B)

VOC Values
As supplied: 0 g/l
Thinned: 20% Thinner #76: 131 g/l
These are nominal values.

Dry Temp. Resistance
Continuous:79°C
Non-Continuous:93°C

Limitations
Epoxies lose gloss, discolour and eventually chalk in sunlight exposure.
Do not use for immersion service unless adequately top-coated.

Substrates & Surface Preparation

Concrete
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.

As a Curing Membrane
Carboguard 1340 has been tested in accordance with ASTM C 309-98a Standard Specification for Liquid Membrane Forming Compounds for Curing Concrete and passes the requirements set forth in the standard. 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% R.H. or equivalent. Prior to topcoating we recommend that a test patch be applied to insure proper adhesion.

General
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Pyrocrete Fireproofing Products
Contact Carboline Technical Service or your Carboline sales representative for specific applications and requirements.
Note - for this application specifications may refer to this product as Pyrocrete 1340.

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.

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Carboguard® 1340

Application Equipment

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. **General Guidelines**:

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.

Mixing & Thinning

Mixing Power mix separately, then combine and power mix.
DO NOT MIX PARTIAL KITS.

Ratio 1:1 by volume (Part A : Part B)

Thinning Normally not required but 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.

Pot Life 45 minutes at 24°C. Pot life will be less at higher temperatures.

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 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 an approved respirator.

Caution 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. 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 Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	16°-27°C	16°-27°C	16°-27°C	0-80%
Minimum	16°C	10°C	10°C	0%
Maximum	32°C	54°C	38°C	90%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel. Special application techniques may be required above or below normal application conditions.

Curing Schedule

Surface Temp. & 50% RH	Dry to Topcoat or Handle	Maximum Recoat with Waterborne	Max Recoat Solvent Borne	Final Cure
10°C	24 hours	14 days	30 days	9 days
24°C	12 hours	14 days	30 days	6 days
32°C	6 hours	7 days	15 days	3 days

These times are based on a 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 curing can interfere with the cure, can cause discolouration 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.

Curing Schedule for Curing / Form-Release Agent

Surface Temp 50% Relative Humidity	Dry to Topcoat Or Handle	Final Cure
24°C	5 hours	6 days

These times are based on 125-250 microns mils dry film thickness.

Packaging, Handling & Storage

Pack Sizes

	Part A	Part B
4 litre kit	2 litre	2 litre
8 litre kit	4 litre	4 litre

Flash Point (Setaflash) Part A: 96°C
Part B: >96°C

Storage Temperature & Humidity Store under cover.
4°- 43°C
0-90% Relative Humidity

Shelf Life Part A: Min. 36 months at 24°C
Part B: Min. 36 months at 24°C

***Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**

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