

SELECTION & SPECIFICATION DATA

Generic Type	A single package, oil-free polyurethane
Description	A hard, tough urethane coating having outstanding resistance to abrasion and wear. Can be made non-skid where desired. Film is flexible, glossy, stain and mar resistant. Has greater resistance to wear and abrasion than deck enamels. Surface is easily cleaned. Resistant to most chemicals and solvents, oil and grease.
Features	<ul style="list-style-type: none"> • Recommended over properly prepared interior concrete floors to protect the surfaces against excessive wear and dusting • Excellent for areas subjected to heavy foot and vehicular traffic such as aisles, warehouse floors and ramps • Excellent flexibility • Excellent abrasion resistance • Not suitable for exterior use. Will amber and chalk on sunlight exposure • Not recommended for liquid immersion or splash and spillage of strong acids
Color	<p>Red, Grey, Green, Yellow and Black</p> <p>NOTE: Colour may vary from batch to batch. Use products from the same batch for final coat. Surface may discolour if exposed to strong light source, or chemical spills.</p> <p>NOTE: Carboline is committed to being a “lead-free” supplier. This however results in certain bright colours having a lower obliteration in comparison to “lead-based” coatings. Some colours (particularly Reds, Oranges and Yellows) may require multiple coats when applied over darker surfaces. Light coloured primers are available to mitigate against this.</p>
Finish	High Gloss (85-100)
Dry Film Thickness	50 Microns
Solid(s) Content	By Volume 62% ± 1%
Theoretical Coverage Rates	<p>12.4m²/litre at 50 microns</p> <p>NOTE: Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.</p>
Dry Temp. Resistance	<p>Continuous: 66°C (151°F)</p> <p>Non-Continuous: 82°C (180°F)</p>
Topcoats	None required

SUBSTRATES & SURFACE PREPARATION

General	<p>Do not apply coating unless concrete has cured at least 28 days at 25°C and 50% RH. Remove any oil or grease from surface to be coated. Refer to detailed procedure for application of Carbothane 1345 to concrete floors.</p> <p>Concrete floors should be at least as rough as medium grit sandpaper. The surface should be free of laitance. This can be accomplished by acid etch or mechanical abrasion. Do not coat concrete floors treated with hardening solutions unless test patch indicates satisfactory adhesion.</p>
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Carbothane 1345

PRODUCT DATA SHEET



PERFORMANCE DATA (TYPICAL VALUES)

Test Method	System	Results
Cross Hatch Adhesion ASTM D3359	Blasted steel 1 Coat Carbothane 1345	5A
Taber Abrasion ASTM D4060	Blasted steel 1 Coat Carbothane 1345	0.2g loss after 1000 cycles, CS-10 wheel, 1000g load

MIXING & THINNING

Mixing | Mix to a smooth consistency before thinning.

Thinning | 25% by volume with Thinner # 10 for the first coat. Apply second coat undiluted. For environments with high humidity, Thinner AB should be used. 25% by volume with Thinner AB for the first coat. Apply the second coat at 10% thinned with Thinner AB.

NOTE: Substitute thinners, especially Lacquer Thinners, may contain alcohols which will inhibit the cure of Carbothane 1345.

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.

General | **Non-skid Surface:** Broadcast non-skid grit into the second to last coat of Carbothane 1345. Apply a full coat of Carbothane 1345 over the grit for ease of cleaning.

Brush & Roller (General) | Rollers should be professional mohair rollers, suitable for solvent or water-based applications. Test areas should be done with available rollers to determine acceptable finish. Certain rollers may induce air into the product during application. Use slow, even strokes with maximum amount of thinner to avoid air entrapment. Avoid rerolling.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	10%
Maximum	38°C (100°F)	38°C (100°F)	43°C (109°F)	90%
Optimum	24°C (75°F)	23°C (73°F)	22°C (72°F)	60%

Do not apply when the surface temperature is less than 3°C above the dew point. Special thinning and application techniques may be required above or below normal conditions.

CURING SCHEDULE

Surface Temp.	Final Cure	Between Coats
10°C (50°F)	48 Hours	12 Hours
16°C (61°F)	35 Hours	8 Hours
24°C (75°F)	24 Hours	6 Hours
32°C (90°F)	18 Hours	4 Hours

NOTE: If more than 12 hours at 25°C or equivalent time has elapsed between coats, special surface preparation will be required.

Curing Details | **Relative Humidity: 50%**

CLEANUP & SAFETY

Cleanup	Use Thinner # 10
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.
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 vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not able to monitor levels, use MSHA / NIOSH approved respirator.

PACKAGING, HANDLING & STORAGE

Shelf Life	9 Months. Once opened, the shelf life will be reduced. Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Shipping Weight (Approximate)	5 Litre Carbothane 1345 (Colours): 6.7kg Thinner # 10: 4.9kg
Storage Temperature & Humidity	4 to 43°C 0 to 95%
Flash Point (Pensky Martens Closed Cup)	Carbothane 1345 (Colours): 28°C Thinner # 10: 24°C

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.