

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 	
Colour	Red, Grey, Green, Yellow and Black	
	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.	
Finish	High Gloss	
Topcoat	None required	
Dry Film Thickness	50 Microns	
Solids Content	By Volume 62% ± 1%	
Theoretical Coverage Rate	12.4m ² /litre at 50 microns	
	NOTE: Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.	
Temp Resistance	Continuous	66°C
	Non-continuous	82°C

Substrates & Surface Preparation

General 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.

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.

Performance Data

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

November 2016 replaces March 2012

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Carbothane® 1345

Application Equipment

Brush or Roller Brush or spread using long, even, full strokes. Avoid rebrushing. Rollers should be medium nap mohair or lint-free lambs-wool. Use slow, even strokes with maximum amount of thinner to avoid air entrapment. Avoid rerolling.

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.

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.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	18-29°C	16-29°C	10-32°C	35-80%
Minimum	10°C	10°C	10°C	10%
Maximum	38°C	38°C	43°C	90%

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. & 50% Relative Humidity	Between Coats	Final Cure
10°C	12 Hours	48 Hours
16°C	8 Hours	36 Hours
24°C	6 Hours	24 Hours
32°C	4 Hours	18 Hours

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

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

Shipping Weight (Approximate) Carbothane 1345 Colours **5 Litre**
Thinner # 10 6.7kg
4.9kg

Flash Point (Pensky Martens Closed Cup) Carbothane 1345 Colours 28°C
Thinner # 10 24°C

Storage Temperature & Humidity 4 to 43°C
0 to 95%

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.**



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