

# LUXAFLOOR® LGE

## High Build Epoxy Floor Coating

**PC 700**

- FEATURES**
- EXCELLENT BOND TO PREPARED CONCRETE FLOORS
  - USE AS A FINISH ON INTERIOR FLOORS OR AS A PRIMER FOR LUXAFLOOR® PTX ON UV EXPOSED FLOORS
  - AVAILABLE IN A WIDE RANGE OF COLOURS FROM THE LUXAFLOOR® COLOUR CHART
  - COLD CURE HARDENER AVAILABLE
  - EASY APPLICATION BY ROLLER
  - SUITABLE FOR VEHICLE TRAFFIC

**USES** LUXAFLOOR® LGE is a high-solids, semi-gloss epoxy floor coating with excellent durability and chemical resistance against a range of solvents. LUXAFLOOR® LGE withstands repeated cleaning and hosing down and withstands ponding water. LUXAFLOOR® LGE is fully compatible with LUXAFLOOR® PTX for floors that extend to areas exposed to UV. LUXAFLOOR® LGE is also suitable for metal substrates.

LUXAFLOOR® LGE is available in a wide range of colours by tinting through the COLORFAST® Tint System. Cold Cure hardeners are available to allow for cooler application conditions.

**SPECIFICATIONS AS 4586:2013** Refer to Luxafloor Aggregates Technical Data Sheet for the full list of systems and ratings.

### RESISTANCE GUIDE

<b>WEATHERABILITY</b>	Will yellow with time. Will chalk on exterior exposure. Neither yellowing nor chalking detracts from the protective properties of the coating. Topcoat with LUXAFLOOR® PTX for exterior floors.	<b>SOLVENTS</b>	Resists splash and spillage of most hydrocarbon solvents, refined petroleum products and most common alcohols
<b>HEAT RESISTANCE</b>	Up to 120°C dry heat	<b>WATER</b>	Excellent resistance to fresh and salt water. Tinted colours are not recommended for immersion
<b>SALTS</b>	Excellent resistance to neutral and alkali salts	<b>ALKALIS</b>	Suitable for splash and spillage of strong alkalis
<b>ACIDS</b>	Suitable for splash and spillage of mild acids	<b>ABRASION</b>	Good when fully cured. Abrasion testing: 152.9mg lost using CS17 wheels over 1000 cycles with a 1kg weight.

### TYPICAL PROPERTIES AND APPLICATION DATA (STANDARD HARDENER)

<b>CLASSIFICATION</b>	Epoxy Floor Coating	<b>APPLICATION CONDITIONS</b>			
<b>FINISH</b>	Semi-Gloss		Min	Max	
<b>COLOUR</b>	Wide range of tinted colours and N35 Light Grey	<b>Air Temp.</b>	10°C	40°C	
		<b>Substrate Temp.</b>	10°C	40°C	
		<b>Relative Humidity</b>		85%	
<b>COMPONENTS</b>	Two	<b>Concrete Moisture</b>		<6%	
<b>VOLUME SOLIDS</b>	84% (White)	<b>COATING THICKNESS (MICRONS)</b>			
<b>VOC LEVEL</b>	<230 g/L (White, untinted)		Min	Max	Recommended
<b>FLASH POINT</b>	>41°C	<b>Wet film per coat (µm)</b>	120	250	150
<b>POT LIFE</b>	90 Minutes (4 litre kit, 25°C)	<b>Dry film per coat (µm)</b>	100	210	125
<b>MIXING RATIO V/V</b>	Part A : 4    Part B : 1	<b>SUITABLE SUBSTRATES</b>	Diamond ground or track blasted concrete and metal		
<b>THINNER</b>	920-08925    Dulux® Epoxy Thinner	<b>PRIMERS</b>	N/A		
<b>PRODUCT CODE</b>	776-63001    White/Light Base 776-63002    Deep Base 776-63003    Clear Base 776-38678    N35 Light Grey 976-H0153    Standard Hardener 976-H0227    Cold Cure Hardener	<b>TOPCOATS</b>	Specified Luxafloor® Topcoats		
		<b>APPLICATION METHODS</b>	Brush, roller, conventional or airless spray		

### DRYING CHARACTERISTICS AT 125 µm DRY FILM THICKNESS\* STANDARD HARDENER

Temperature	Humidity	Touch	Light Traffic	Full Cure	OVERCOAT	
					Min	Max <sup>1</sup>
10° C	50%	14 Hours	48 Hours	7 Days	36 Hours	4 Weeks
15° C	50%	10 Hours	36 Hours	7 Days	24 Hours	4 Weeks
25° C	50%	6 Hours	14 Hours	7 Days	14 Hours	4 Weeks

\*These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

<sup>1</sup>If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

**SPREADING RATE** 6.7 square metres per litre equals 125 µm dry film thickness

ASSUMING NO LOSSES

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.

# LUXAFLOOR® LGE

## COLD CURE HARDENER

### COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	120	250	150
Dry film per coat (µm)	100	210	125

### APPLICATION CONDITIONS

	Min	Max
<b>Air Temperature</b>	5°C	30°C
<b>Substrate Surface Temperature</b>	5°C	30°C
<b>Relative Humidity</b>		85%
<b>Concrete Moisture Content</b>		<6%

<b>SOLIDS BY VOLUME</b>	84% (White/Light Base)
<b>VOC LEVEL</b>	<210 g/L (White, untinted)
<b>FLASH POINT</b>	>23°C
<b>POT LIFE</b>	60 Minutes (4 litre kit, 25°C)

## DRYING CHARACTERISTICS AT 125 µm DRY FILM THICKNESS\* COLD CURE HARDENER

### OVERCOAT

Temperature	Humidity	Touch	Light Traffic	Full Cure	Min	Max <sup>1</sup>
5° C	50%	14 Hours	48 Hours	7 Days	28 Hours	4 Weeks
10° C	50%	13 Hours	36 Hours	7 Days	24 Hours	4 Weeks
15° C	50%	12 Hours	30 Hours	7 Days	18 Hours	4 Weeks
25° C	50%	6 Hours	24 Hours	7 Days	9 Hours	4 Weeks

\*These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying

<sup>1</sup>If the maximum overcoat interval is exceeded, then the surface MUST be abraded to ensure maximum intercoat adhesion.

Use of fast or low temperature hardeners may result in increased yellowing and a reduction of gloss level.

### SPREADING RATE

with Fast Cure Hardener  
assuming no losses

**6.7 square metres per litre equals 125 µm dry film thickness**

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

## TYPICAL SYSTEMS

This is a guide only and not to be used as a specification. Your specific project needs must be discussed with a Dulux Protective Coatings Consultant.

SURFACE	ENVIRONMENT	PREPARATION GUIDE	SYSTEM	DFT (µm)
CONCRETE	Interior Floors	Remove curing agents and other surface contaminants. Diamond grind or track blast.	1 <sup>st</sup> Coat Luxafloor® LGE Thin by 10 - 15% 2 <sup>nd</sup> Coat Luxafloor® LGE	125 µm 125 µm
CONCRETE	Interior Floors – non slip	Remove curing agents and other surface contaminants. Diamond grind or track blast.	1 <sup>st</sup> Coat Luxafloor® LGE Thin by 10 - 15% 2 <sup>nd</sup> Coat Luxafloor® LGE Mix in Stir-In Aggregate Coarse @ 30g/L	125 µm 125 µm
CONCRETE	Interior Floors – non slip	Remove curing agents and other surface contaminants. Diamond grind or track blast.	1 <sup>st</sup> Coat Luxafloor® LGE Thin by 10 - 15% 2 <sup>nd</sup> Coat Luxafloor® LGE 3 <sup>rd</sup> Coat Luxafloor® LGE While still wet scatter Broadcast Aggregate No. 36 at 50g/m <sup>2</sup>	125 µm 125 µm 125 µm
CONCRETE	Exterior Floors	Remove curing agents and other surface contaminants. Diamond grind or track blast.	1 <sup>st</sup> Coat Luxafloor® LGE 2 <sup>nd</sup> Coat Luxafloor® PTX	125 µm 100 µm
CONCRETE	Exterior Floors – non slip	Remove curing agents and other surface contaminants. Diamond grind or track blast.	1 <sup>st</sup> Coat Luxafloor® LGE Thin by 10 - 15% 2 <sup>nd</sup> Coat Luxafloor® PTX Mix in Stir-In Aggregate Coarse @ 30g/L	125 µm 100 µm
CONCRETE	Exterior Floors – non slip	Remove curing agents and other surface contaminants. Diamond grind or track blast.	1 <sup>st</sup> Coat Luxafloor® LGE Thin by 10 - 15% 2 <sup>nd</sup> Coat Luxafloor® LGE 3 <sup>rd</sup> Coat Luxafloor® PTX While still wet scatter Broadcast Aggregate No. 36 at 50g/m <sup>2</sup>	125 µm 125 µm 100 µm

NOTE: If application is by brush or roller, additional coats may be necessary to achieve the minimum DFT and full opacity

# LUXAFLOOR® LGE

<b>SURFACE PREPARATION</b>	<p><b>Concrete Floors:</b> Concrete must be at least 28 days old before coating. Remove oil, grease and other oily contaminants with Gamlen CA 1 (according to the manufacturer's written instructions and all safety warnings). Diamond grind, blast-track or mechanically abrade concrete floors to remove laitance, curing compounds, hardeners, sealers and/or other contaminants and to provide a concrete surface profile of CSP 2-3 per ICRI 310.2R. Remove all dust and debris by vacuum cleaning. Large cracks, voids and other surface imperfections should be filled with a suitable epoxy filler/surfacers as recommended by your local Protective Coatings Representative. Check moisture content of the floor prior to painting*.</p> <p>*Allow new concrete to cure a minimum of 28 days at 24°C. To minimise the risk of moisture interference, Dulux recommends the following two tests be performed prior to coating – ASTM F2659 – 10 "Standard Guide for Preliminary Evaluation of Comparative Moisture Condition of Concrete, Gypsum Cement and Other Floor Slabs and Screeds Using a Non-Destructive Electronic Moisture Meter"(moisture content not to exceed 6%) and ASTM D 4263 "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method" (no visible moisture present).</p> <p>If there is any concern about moisture problems with the concrete slab, or for projects greater than 500m<sup>2</sup>, at least one of the following more accurate quantitative test methods should be used - ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (moisture vapor transmission should not exceed 1.4 kilograms (3 pounds) per 93 square metres (1,000 square feet) in a 24 hour period), ASTM F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes" (as referred to in AS 1884-2012, relative humidity should be less than 75%) Note: The testing listed above cannot guarantee avoidance of future moisture related problems particularly with existing concrete slabs. This is especially true if the use of an under-slab moisture vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, chlorides or Alkali Silica Reaction (ASR) is suspected.</p>									
<b>APPLICATION</b>	<p>Mix each can thoroughly using a power mixer until the contents are uniform. Ensure bases have been tinted to the correct colour before use. DULUX ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF INCORRECT COLOUR. Mix the contents of both packs together thoroughly using a power mixer and allow to stand for 10 minutes. Box all containers before use to ensure colour consistency. Remix thoroughly before use.</p>									
<b>BRUSH/ROLLER</b>	<p>It is recommended to thin by 10-15% on the first coat on bare concrete. Brush suitable for small areas only and cutting in. Apply even coats of the mixed material to the perimeter of the prepared floor. When brushing and rolling additional coats may be required to attain the specified thickness.</p>									
<b>CONVENTIONAL SPRAY</b>	<p>Thin up to 5% with Dulux® Epoxy Thinner (920-08925).</p> <table border="0" data-bbox="391 996 1498 1075"> <tr> <td>Typical Set-up</td> <td>Graco AirPro:</td> <td>1.8mm (239542)</td> </tr> <tr> <td></td> <td>Pressure at Triton 308:</td> <td>65-100 kPa (10-15 p.s.i.)</td> </tr> <tr> <td></td> <td>Pressure at Gun:</td> <td>385-420 kPa (55-60 p.s.i.)</td> </tr> </table>	Typical Set-up	Graco AirPro:	1.8mm (239542)		Pressure at Triton 308:	65-100 kPa (10-15 p.s.i.)		Pressure at Gun:	385-420 kPa (55-60 p.s.i.)
Typical Set-up	Graco AirPro:	1.8mm (239542)								
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	Pressure at Gun:	385-420 kPa (55-60 p.s.i.)								
<b>AIRLESS SPRAY</b>	<p>Standard airless spray equipment such as a Graco Xtreme 45:1 or 56:1 with a fluid tip of 17–21 thou (0.43-0.53mm) and an air supply capable of delivering 550-690 kPa (80 -100 psi) at the pump. Thinning is not normally required but up to 50ml/litre of Dulux® Epoxy Thinner (920-08925) may be added to aid application.</p>									
<b>PRECAUTIONS</b>	<p>This is an industrial product designed for use by experienced Protective Coating applicators. Ensure that you read and understand the safety precautions on the relevant Safety Data Sheets before using. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® Australia. Freshly mixed material must not be added to material that has been mixed for some time. Do not apply at temperatures below 10°C or below 5°C when using Cold Cure hardener. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. When used with a light colour, the Cold Cure hardener will impart a yellow tone that will darken with time. The use of Cold Cure hardener may result in increased yellowing and a reduction of gloss level. Freshly mixed material must not be added to previously mixed material. <b>Note</b> – Rubber-tyred vehicles, particularly those using new high-performance car tyres, may cause yellowing or staining on floor coatings. The rubber can contain materials that will migrate into the surface coating and cause this effect. This is dependent on the composition and age of the tyre and may affect all coatings to a greater or lesser extent. Refer to our tech note (<a href="https://www.duluxprotectivecoatings.com.au/media/1542/139-concrete-floors-tyre-staining.pdf">https://www.duluxprotectivecoatings.com.au/media/1542/139-concrete-floors-tyre-staining.pdf</a>) to find out more about tyre staining and how it can be managed. Dulux Protective Coatings.</p>									
<b>CLEAN UP</b>	<p>Clean all equipment with Dulux® Epoxy Thinner (920-08925) immediately after use.</p>									
<b>OVERCOATING</b>	<p>Degrease with Gamlen CA No. 1 according to the data sheet. Test adhesion of existing coating by standard cross hatch adhesion test. If the coating fails, remove it. Use a suitable epoxy filling mortar to fill any cracks, defects or blowholes in the concrete. Spot prime any bare areas with your chosen floor coating. Mechanically grind the existing coating to remove any gloss and create a rough surface profile that will provide a good key for the new coating. Vacuum clean to remove all dust.</p>									
<b>SAFETY PRECAUTIONS</b>	<p><b>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or <a href="http://www.duluxprotectivecoatings.com.au">www.duluxprotectivecoatings.com.au</a></b></p>									
<b>STORAGE</b>	<p>Store as required for a flammable liquid Class 3 in a bunded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times.</p>									
<b>HANDLING</b>	<p>As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.</p>									
<b>USING</b>	<p>Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spraying, users must comply with their respective State Spray Painting Regulations.</p>									
<b>FLAMMABILITY</b>	<p>This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder). On burning will emit toxic fumes. Avoid breathing products of combustion.</p>									

**COMPANY INFORMATION**

Dulux Protective Coatings is a division of

DuluxGroup (Australia) Pty Ltd  
1956 Dandenong Road, Clayton 3168  
A.B.N. 67 000 049 427

DuluxGroup (New Zealand) Pty Ltd  
150 Hutt Park Road, Lower Hutt, NZ  
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**PACKAGING, TRANSPORT AND STORAGE**

PACKAGING Available in 10 litre packs

TRANSPORTATION WEIGHT 1.73 kg/litre (Average of components)

DA  
DANGEROUS GOODS Part A: Class 3 UN 1263  
Part B: Class 8,3 UN 2734

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