

LUXAFLOOR[®] ECO₂TM

Water Borne Epoxy Floor Coating

PC 296

- FEATURES**
- EXTREMELY TOUGH FILM
 - WATER BORNE EPOXY FLOOR COATING
 - EXCELLENT ADHESION TO CONCRETE
 - GOOD CHEMICAL RESISTANCE
 - LOW VOC – LESS THAN 10g/L
 - LOW ODOUR
 - AVAILABLE IN A SELECTED RANGE OF FACTORY MADE AND TINTED COLOURS
 - AVAILABLE IN CLEAR COAT FINISH

USES LUXAFLOOR[®] ECO₂ is a low build, water borne, two pack epoxy floor coating that provides a hardwearing surface. It is ideal for use in areas subject to foot and rubber-tyred vehicle traffic. Can be applied as a slip resistant finish to provide maximum safety by using a suitable aggregate. Refer Product Data Sheet PC940 LUXAFLOOR[®] Aggregate. LUXAFLOOR[®] ECO₂ is ideal for use in internal floor areas where the odour of conventional epoxy floor coatings prevents their use.
Clear Coat is suitable for use direct to concrete or as a protective coat over a colour finish.

SPECIFICATIONS AS/NZS 4586 (with the addition of a suitable LUXAFLOOR[®] Aggregate)

RESISTANCE GUIDE

HEAT RESISTANCE	Up to 120°C dry heat.	ALKALIS	Excellent resistance to splash and spillage of most alkalis.
WEATHERABILITY	Epoxy coatings may yellow with time. On exterior exposure some chalking may also occur. This will not detract from the protective properties of the coating. Use a weatherable topcoat if required for appearance.	SALTS	Unaffected by splash and spillage of neutral and alkaline salt solutions.
SOLVENTS	Resists splash and spillage of aromatic and aliphatic hydrocarbon solvents and alcohols.	WATER	Excellent resistance to fresh and salt water.
ACIDS	Suitable for splash and spillage exposure to dilute acids.	ABRASION	Excellent when fully cured. CS-17 Wheels 120mgs/1000 cycles (Taber Abraser 1000gm load/wheel)
		ADHESION	80 kg/cm ² (1100 p.s.i.) (Dolly Pull Off, AS1580.408.5)

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Water Borne Epoxy Coating	APPLICATION CONDITIONS	Min	Max	
FINISH	Eggshell	Air Temperature	5°C	35°C	
COLOUR	Selected range of factory made and tinted colours, MTO factory colours and a Clear Coat	Substrate Surface Temperature	5°C	35°C	
COMPONENTS	Two	Relative Humidity		85%	
SOLIDS BY VOLUME	42%	Concrete Moisture Content		<10%	
VOC LEVEL	<10 g/L (Untinted Pastel Base)		Min	Max	Recom.
FLASH POINT	Non Flammable	Wet film per coat (microns)	95	190	155
POT LIFE ¹	2 hour (10L Pack, 25°C)	Dry film per coat (microns) ²	40	80	65
MIXING RATIO (V/V)	Part A : 1 Part B : 2	SUITABLE SUBSTRATES	Suitably prepared concrete.		
THINNER	Potable Water (Refer Application section)	APPLICATION METHODS	Brush, Roller, Conventional and Airless spray.		
PRODUCT CODE	714-89840 Pastel Base 714-89899 Clear Coat 976-89841 Hardener				

Drying characteristics at 65 microns dry film thickness.

Temperature	Humidity	Touch	Light Traffic	Full Cure	Overcoat	
					Min	Max ³
10° C	50%	2.5 Hours	48 Hours	7 Days	7 Hours	48 Hours
25° C	50%	1 Hour	24 Hours	7 Days	4 Hours	48 Hours

These figures are given as a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.
NOTE – Temperatures above relate to the floor/substrate temperature and not the ambient temperature.

¹ Do not use any product past its pot life. Product past its pot life may still appear fit for use but will develop substantially reduced gloss and may show excessive brittleness.

² Higher film builds can be achieved by spray application but this will extend drying times.

³ If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD

A spreading rate of 6.5 sq. metres per litre corresponds to 65 microns dry film thickness assuming no losses.
Practical spreading rates will vary depending on such factors as method and conditions of application and surface roughness.

LUXAFLOOR® ECO₂™

TYPICAL SYSTEMS

(The typical systems are offered as a guide only and are not to be used as a specification. It is recommended that the specific needs of a project be discussed with a Dulux Protective Coatings Consultant.)

SURFACE	PREPARATION GUIDE	SYSTEM	DRY FILM THICKNESS
CONCRETE	Clean surface to remove contaminants. Diamond grind, track or light-shot blast. Remove dust.	1st Coat LUXAFLOOR® ECO ₂ ™ 2nd Coat LUXAFLOOR® ECO ₂ ™ For a slip resistant finish refer to Product Data Sheet PC940 LUXAFLOOR® Aggregate.	65 Microns 65 Microns

SURFACE PREPARATION Concrete: Remove all laitance, form release, curing compounds, oil, grease and other surface contaminants. Diamond grind, track or light shot-blast to provide suitable profile. Remove all dust by vacuum cleaning. Fill any large voids exposed using Luxepoxy Filler. Cement based substrates should be at least 21 days old before coating.

APPLICATION **All equipment previously used with solvent based paints should be flushed sequentially: firstly with acetone, then with Ethanol (Methylated Spirits) and then water before use.** Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Ensure bases have been tinted to the correct colour before use – DULUX ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF AN INCORRECT COLOUR. Mix the contents of both packs together thoroughly using a power mixer and allow to stand for 3 minutes. Box all containers before use to ensure colour consistency. Remix thoroughly before using. To ease application and penetration into the concrete surface the first coat maybe thinned up to 15% with fresh potable water. (Add the water with stirring after the Part A and Part B have been thoroughly mixed together).

BRUSH/ROLLER Roller application suitable for use on concrete floors by applying even coats of mixed material to the prepared surface. It is recommended that typical "X" and "Y" roller patterns be used, working in small areas of up to 10m² at a time, keeping a wet-edge moving forward. When brushing and rolling additional coats may be required to attain the specified thickness.

CONVENTIONAL SPRAY
Typical Set-up
Graco Delta Gun: 1.8mm (239543)
Pressure at Pot: 70-100 kPa (10-15 p.s.i.)
Pressure at Gun: 380-415 kPa (55-60 p.s.i.)

AIRLESS SPRAY Standard airless spray equipment such as a Graco 30:1 President with a fluid tip of 17-21 thou (0.43-0.53mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump.

PRECAUTIONS This is an industrial product designed for use by experienced Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® representative for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the express written consent of Dulux® Australia. Do not use any product past its pot life. Product past its pot life may still appear fit for use but will develop substantially reduced gloss and may show excessive brittleness. Freshly mixed material must not be added to material that has been mixed for some time. The rate of cure is dependent upon temperature. Do not apply at temperatures below 5°C, or where the surface temperature is below 5°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Product should be protected against ponding water for 24 hours after application. After this period ponding water may cause temporary lightening of the colour which will recover after the surface is dried. When applying this product to broad surfaces such as floors use only one application method to avoid colour variation or streaking.

CLEAN UP Clean all equipment by thoroughly flushing with water and then Ethanol (Methylated Spirits).

OVERCOATING Aged coating should be tested for lifting by a method appropriate for the coating thickness, for example 'X' cut or cross-hatch methods. If it lifts, remove it. The surface must be free of oil, grease and other contaminants. High-pressure water wash at 8.3 to 10.3 MPa (1,200 - 1,500 p.s.i.) to remove loosely adhering chalk and dust. Abrasion may be required depending on surface condition. If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

SAFETY PRECAUTIONS **Read Data Sheet, Material Safety Data Sheet and any precautionary labels on containers.**

STORAGE Both components are NOT classified as dangerous goods for transport or storage. Store in well ventilated bunded area under cover and away from sources of heat. Keep containers closed at all times.

HANDLING 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.

USING 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 spray painting, users should comply with the provisions of the respective State Spray Painting Regulations. This product contains silica. Dry sanding should therefore be avoided and if it cannot wear appropriate respiratory protection.

MATERIAL SAFETY DATA SHEET is available from Customer Service (132377) or www.duluxprotectivecoatings.com.au

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PACKAGING	Available in 10 litre packs
TRANSPORTATION WEIGHT	1.34 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Non Dangerous Goods
	Part B: Non Dangerous Goods

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