

LUXAFLOOR[®] ECO₂[™]

Water Borne Epoxy Floor Coating

PC 296

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

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 traffic. Can be applied as a slip resistant finish by the addition of LUXAFLOOR[®] STIR-IN AGGREGATE FINE. LUXAFLOOR[®] ECO₂[™] is ideal for use in internal floor areas where the odour of conventional epoxy floor coatings prevents their use. Luxafloor[®] Clear Coat is suitable for use direct to concrete or as a protective coat over a Luxafloor[®] ECO₂[™] colour finish.

SPECIFICATIONS AS/NZS 4586 R11 Slip Rating (when used with Stir-In Aggregate Fine)

RESISTANCE GUIDE

WEATHERABILITY	Will yellow with time and chalk on exterior exposure. Neither yellowing nor chalking detracts from the protective properties of the coating.	SOLVENTS	Good resistance to splash and spillage of aromatic and aliphatic hydrocarbon solvents and alcohols
HEAT RESISTANCE	Up to 120°C dry heat	WATER	Excellent resistance to fresh and salt water but not suitable for immersion
SALTS	Excellent resistance to neutral and alkaline salts	ALKALIS	Good resistance to splash and spillage of most common alkalis
ACIDS	Good resistance to splash and spillage of 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		
FINISH	Semi Gloss		Min	Max
COLOUR	Clear, Light Grey, Blue Grey, Pewter, Jade, Harbour Blue, Venetian Red, Signal Red, Vivid Yellow and a range of colours tinted from Pastel Base	Air Temp.	5°C	35°C
COMPONENTS	Two	Substrate Temp.	5°C	35°C
VOLUME SOLIDS	42%	Relative Humidity		85%
VOC LEVEL	<10 g/L (Untinted Pastel Base)	Concrete Moisture		<10%
FLASH POINT	Non Flammable	COATING THICKNESS (MICRONS)²		
POT LIFE¹	2 hour (10 litre kit, 25°C)	Wet film per coat (µm)	95	190
MIXING RATIO V/V	Part A : 1 Part B : 2	Dry film per coat (µm)	40	80
THINNER	Potable water			155
PRODUCT CODE	714-89899 Clear 714-89840 Pastel Base 714-38678 Light Grey 714-38716 Blue Grey 714-38661 Pewter 714-38866 Jade 714-39025 Harbour Blue 714-39048 Venetian Red 714-39079 Signal Red 714-39119 Vivid Yellow 976-89841 Part B	SUITABLE SUBSTRATES		65
		PRIMERS		
		TOPCOATS		
		APPLICATION METHODS		

DRYING CHARACTERISTICS AT 65 µm DRY FILM THICKNESS

Floor 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 a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

¹ Do not use any product past its pot life, even if it still appears fit for use; it 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.

SPREADING RATE

ASSUMING NO LOSSES

6.5 square metres per litre equals 65 µm dry film thickness

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

LUXAFLOOR® ECO₂™

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	Remove curing agents and other surface contaminants. Diamond grind or track blast	1 st Coat Luxafloor® ECO ₂ ™ 2 nd Coat Luxafloor® ECO ₂ ™	65 µm 65 µm
CONCRETE	Interior	Remove curing agents and other surface contaminants. Diamond grind or track blast	1 st Coat Luxafloor® ECO ₂ ™ 2 nd Coat Luxafloor® ECO ₂ ™ + Stir-In Aggregate Fine @ 30g/L	65 µm 65 µm

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

SURFACE PREPARATION	Concrete must be at least 28 days old before coating. Remove all laitance, curing compounds, oil, grease and other surface contaminants. Diamond grind, track or light shot-blast to remove laitance and provide a suitable profile. Remove all dust by vacuum cleaning. Fill any large cracks or voids using Luxepoxy® Filler.
APPLICATION	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 with a power mixer and let stand for 3 minutes. Box all containers before use to ensure colour consistency. Remix thoroughly before application. To aid application and penetration into the concrete, thin the first coat 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	Cut in with brush around perimeter of floor. Roller application is preferred method. Apply 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 10m ² 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	All equipment previously used with solvent based paints should be flushed sequentially with acetone, methylated spirits and finally water before use. Typical Set-up Graco Delta Gun 1.8mm (239543) Pressure at Pot: 70-100 kPa (10-15 p.s.i.) Pressure at Gun: 380-410 kPa (55-60 p.s.i.)
AIRLESS SPRAY	Flush equipment sequentially with acetone, methylated spirits and finally water before use. 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 product is not recommended for use on car parks or garage floors. 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 written consent of Dulux® Australia. Do not use any two pack product past its pot life. Product past its pot life may still appear fit for use but will develop substantially reduced gloss and may develop 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, use only one application method to avoid colour variation or streaking.
CLEAN UP	Clean all equipment by thoroughly flushing with water and then ethanol or methylated spirits.
OVERCOATING	Remove oil, grease, dirt and other surface contaminants. Test adhesion of existing coating by standard cross hatch adhesion test. If the coating fails, remove it. High-pressure water wash at 8.3 to 10.3 MPa (1,200-1,500p.s.i.) to remove chalk and dust. Abrade to remove gloss and provide a key for the new coating. Epoxies must be abraded if recoated outside the recoat window.
SAFETY PRECAUTIONS	Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (132377) or www.duluxprotectivecoatings.com.au
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 spraying, users must comply with their respective State Spray Painting Regulations.
FLAMMABILITY	This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO ₂ or dry chemical powder. On burning will emit toxic fumes.
WELDING	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

COMPANY INFORMATION

Dulux Protective Coatings 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
A.B.N. 55 133 404 118

PACKAGING, TRANSPORT AND STORAGE

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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