## LUXAFLOOR<sup>®</sup> ECO<sub>2</sub><sup>®</sup>

## 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
  - EXCELLENT ADHESION TO CONCRE
    GOOD CHEMICAL RESISTANCE
  - AVAILABLE IN A RANGE OF FACTORY MADE AND TINTED COLOURS AND CLEAR
  - **USES** LUXAFLOOR<sup>®</sup> ECO<sub>2</sub><sup>®</sup> 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. LUXAFLOOR<sup>®</sup> ECO<sub>2</sub><sup>®</sup> can be applied as a slip resistant finish by the addition of LUXAFLOOR<sup>®</sup> STIR-IN AGGREGATE FINE.

LUXAFLOOR<sup>®</sup> ECO<sub>2</sub><sup>®</sup> is ideal for use in internal floor areas where the odour of conventional epoxy floor coatings prevents their use. LUXAFLOOR<sup>®</sup> Clear Coat is suitable for use direct to concrete or as a protective coat over a LUXAFLOOR<sup>®</sup> ECO<sub>2</sub><sup>®</sup> colour finish.

SPECIFICATIONS	S AS 4586:2013 Refer to Luxafloor Aggregates Technical Data Sheet for the full list of systems and ratings.						
RESISTANCE GUIDE							
WEATHERABILITY	exposure. N detracts from	with time and chalk on exterior leither yellowing nor chalking the protective properties of the	SOLVENTS	Good resistance to splash and spillage of aromatic and aliphatic hydrocarbon solvents and alcohols			
	coating. Us required for a	e a weatherable topcoat if appearance.	WATER	Excellent resistance to fresh and salt water but not suitable for immersion.			
HEAT RESISTANCE	Up to 120°C	dry heat	ALKALIS	Good resistance to splash and spillage of most common alkalis.			
SALTS	Excellent res salts	sistance to neutral and alkaline	ABRASION	Excellent when fully cured. CS-17 Wheels 120mgs/1000 cycles (Taber Abraser 1000gm load/wheel)			
ACIDS	Good resista dilute acids	ance to splash and spillage of	ADHESION	80 kg/cm <sup>2</sup> (1100 p.s.i.) (Dolly Pull Off, AS1580.408.5)			
TYPICAL PROPERTIES AND APPLICATION DATA							
CLASSIFICATION	Water Borne	Epoxy Coating	APPLICATION COND	ITIONS			
	Semi Gloss			Min	Max		
COLOUR	Clearcoat, Li	ght Grey and Vivid Yellow, and a	Air Temp.	10°C	35°C		
		urs tinted from Pastel Base using uthentic Colour <sup>®</sup> Low VOC Tint	Substrate Temp.	10°C	35°C		
	System.		Relative Humidity		85%		
COMPONENTS	Two		<b>Concrete Moisture</b>		<6%		
VOLUME SOLIDS	42%						
VOC LEVEL	<10 g/L (Unti	nted Pastel Base)	COATING THICKNESS (MICRONS) <sup>2</sup>				
FLASH POINT	Non Flamma	ble		Min	Max	Recommended	
POT LIFE <sup>1</sup>	<sup>1</sup> 2 hour (10 litre kit, 25°C)		Wet film per coat (µm)	95	190	155	
MIXING RATIO V/V	Part A : 1 Part B : 2		Dry film per coat (µm)	40	80	65	
	Potable wate			1			
PRODUCT CODE	714-38678 Light Grey		SUITABLE SUBSTRATES				
	714-39119 Vivid Yellow 714-89899 Clearcoat 976-89841 Part B	PRIMERS	Not applicable				
			TOPCOATS	Not Applicable			
			APPLICATION METHODS	Brush, roller, conventional and airless spray			
DRYING CHARACTERISTICS AT 65 µm DRY FILM THICKNESS*							

					OVERCOAT	
Floor Temperature	Humidity	Touch	Light Traffic	Full Cure	Min	Max <sup>3</sup>
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.

<sup>1</sup> 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. <sup>2</sup> Higher film builds can be achieved by spray application but this will extend drying times.

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

SPREADING RATE	6.5 square metres per litre equals 65 µm dry film thickness
ASSUMING NO LOSSES	NOTE: Practical spreading rates will vary depending on such factors as application method, ambient
	conditions, surface porosity and roughness.

## LUXAFLOOR<sup>®</sup> ECO<sub>2</sub><sup>®</sup>

TYPICAL S	SYS	TEMS							
_	-	not to be us	· ·		oject needs i SYSTEM	must be di	scussed with a Dulux	Protective Coatings Cons	
SURFACE CONCRETE	Interio		PREPARATION GUID Remove curing agents surface contaminants. grind or track blast	and other	1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	Luxafloo Luxafloo	or <sup>®</sup> ECO <sub>2</sub> <sup>®</sup> or <sup>®</sup> ECO <sub>2</sub> <sup>®</sup>		<b>DFT (μm)</b> 65 μm 65 μm
CONCRETE	Interio	or	Remove curing agents surface contaminants. grind or track blast		1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat		$pr^{\text{®}} \text{ECO}_2^{\text{®}}$ $pr^{\text{®}} \text{ECO}_2^{\text{®}} + \text{Stir-In}$	Aggregate Fine @ 30g/L	65 μm 65 μm
NOTE: If applicat		-	oller, additional coats wi		-				
PREPARATION F 3 s		<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 filler/surfacer as recommended by your local Protective Coatings Representative. Check moisture content of the floor prior to painting*.							
		recommer Evaluation Non-Destr	nds the following two te of Comparative Moist	ests be perfo ure Conditior ure Meter"(m	rmed prior to of Concret oisture cont	to coating e, Gypsur ent not to	- ASTM F2659 - m Cement and Othe exceed 6%) and AS	k of moisture interferen 10 "Standard Guide for I er Floor Slabs and Scree STM D 4263 "Standard To resent).	Preliminary ds Using a
		If there is any concern about moisture problems with the concrete slab, or for projects greater than 500m <sup>2</sup> , at least the following more accurate quantitative test methods should be used - ASTM F 1869 "Standard Test Method for Method how the following more accurate quantitative test methods should be used - ASTM F 1869 "Standard Test Method for Method how the vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (moisture vapor transmishould not exceed 1.4 kilograms (3 pounds) per 93 square metres (1,000 square feet) in a 24 hour period), ASTM "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes" (as referred to in AS 2012, relative humidity should be less than 75%) Note: The testing listed above cannot guarantee avoidance of moisture related problems particularly with existing concrete slabs. This is especially true if the use of an und moisture vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted si chlorides or Alkali Silica Reaction (ASR) is suspected.						Measuring ansmission TM F 2170 n AS 1884- ce of future under-slab	
APPLICAT	ΓΙΟΝ	correct co COLOUR all contair	lour before use. DUL . Mix the contents of hers before use to ens	UX® ASSUN both packs t sure colour c	IES NO RE cogether the consistency	SPONSI proughly . Remix th	BILITY FOR THE with a power mixe horoughly before a	re bases have been tir APPLICATION OF INC r and let stand for 3 mir pplication. To aid appli of the mixing process.	CORRECT nutes. Box
BRUSH/ROI	LER								
CONVENTIC SF	ONAL PRAY	All equipn spirits and	nent previously used d finally water before	use.				entially with acetone, r	nethylated
		Typical Se	et-up	Graco AirP Pressure at Pressure at	Triton 308	: 70-	mm (239543) 100 kPa (10-15 p.։ )-410 kPa (55-60 բ		
AIRLESS SF	PRAY	Flush equipment sequentially with acetone, methylated spirits and finally water before use. Standard airless spray equipment such as a Graco Xtreme 30:1 with a fluid tip of 17-21 thou (0.43-0.53mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump.							
PRECAUT	IONS	by experii Product D the param product p gloss, brit some time the surfac 3°C above this period	enced Coating applic Data Sheet contact you neters stated in this d past its pot life, ever ttleness or other defe e. The rate of cure is the temperature is belower the dewpoint. Prod d ponding water may of plying this product to	cators. When our Dulux <sup>®</sup> C ocument wit <b>i fi t appea</b> cts. Freshly dependent w 5°C. Do n uct should b cause tempo	re condition onsultant fo hout the wr <b>s fit for us</b> mixed mat upon temp ot apply at pe protected orary lighter	ns may re- pr advice ritten cons- e. Produce erial mus perature. I relative h d against hing of the	equire variation fro prior to painting. I sent of Dulux <sup>®</sup> Aus ct applied past its p at not be added to Do not apply at te umidity above 85% ponding water for e colour, which will	dustrial product design on the recommendatio tralia. <b>Do not use any</b> bot life will develop poor material that has been mperatures below 5°C 6 or when the surface is 24 hours after applica recover after the surface hod to avoid colour var	ns on this ns outside <b>two pack</b> r or patchy mixed for , or where s less than ation. After ce is dried.
CLEA	N UP	0	equipment by thoroug	ghly flushing	with water	and then	ethanol or methyla	ated spirits.	



OVERCOATING	Degrease with Gamlen CA 1 according to the manufacturer's written instructions and all safety warnings. Test adhesion of existing coating by standard cross hatch adhesion test. If the coating fails, remove it. Fill any cracks or defects in the concrete with a suitable epoxy filler. Spot prime bare areas with your chosen floor coating. Mechanically grind the existing coating to remove any gloss and create a good key for the new coating. Vacuum clean to remove all dust.					
SAFETY PRECAUTIONS						
STORAGE						
HANDLING	bunded area under cover and away from sources of heat. Keep containers closed at all times. 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						
FLAMMABILITY	This product is non flammable. On burning will emit toxic fumes.					
WELDING	IG Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.					
<b>COMPANY INFORM</b>	IATION	PACKAGING, TRANSPORT AND STORAGE				
Dulux Protective Coating	gs a division of	PACKAGING Available in 10 litre packs				
DuluxGroup (Australia) 1956 Dandenong Road, A.B.N. 67 000 049 427		TRANSPORTATION WEIGHT 1.34 kg/litre (Average of components) DANGEROUS GOODS Part A: Non Dangerous Goods Part B: Non Dangerous Goods				
Dulux, Luxafloor and ECO2	are registered trade marks of DuluxGroup (Australia) Pty Ltd.					
in good faith and is believ provided without liability o any person or the liabilitie exclusion limitation or mo	ved by Dulux to be appropriate and reliable. However, any adv r responsibility PROVIDED THAT the foregoing shall not exclu as imposed upon Dulux by any condition or warranty implied b odification. Products can be expected to perform as indicate	alia in relation to goods manufactured by it or their use and application is given rice, recommendation, information, assistance or service provided by Dulux is de, limit, restrict or modify the right entitlements and remedies conferred upon y Commonwealth, State or Territory Act or ordinance void or prohibiting such ad in this sheet so long as applications and application procedures are as rosive areas and for large projects to ensure proper performance.				