

# LUXAFLOOR® FCF

## Fast Cure Floor Coating

PC 702

- FEATURES**
- FAST CURE - RECOAT IN 2 HOURS AT 25°C
  - FAST RETURN TO SERVICE – FULL CURE 1 DAY AT 25°C
  - LONG POT LIFE – 8 HOURS AT 25°C
  - ISOCYANATE FREE
  - EXCELLENT GLOSS & COLOUR RETENTION

**USES** LUXAFLOOR® FCF is a high performance, fast cure floor coating designed to get assets back into service quickly through very short cure times. LUXAFLOOR® FCF exhibits excellent gloss and colour retention under extreme UV exposure. LUXAFLOOR® FCF can be used direct to correctly prepared concrete floors and with LUXAFLOOR® AGGREGATES for slip resistant finishes.

**SPECIFICATIONS** **AS 4586:2013 - Without aggregate:** Wet Pendulum of P1 and Oil-Wet Inclining Platform of R9.  
**Luxafloor® Stir-in Aggregate Fine:** Wet Pendulum of P3 and Oil-Wet Inclining Platform of R10.  
**Luxafloor® Stir-in Aggregate Coarse:** Wet Pendulum of P3 and Oil-Wet Inclining Platform of R10.  
**Luxafloor® Broadcast Aggregate No 36:** Wet Pendulum of P5 and Oil-Wet Inclining Platform of R12.

### RESISTANCE GUIDE

<b>WEATHERABILITY</b>	Excellent gloss and colour retention on exterior exposure	<b>SOLVENTS</b>	Resists splash and spillage of most hydrocarbons, 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 but not suitable for immersion
<b>SALTS</b>	Unaffected by splash and spillage of neutral and alkaline salt solutions	<b>ALKALIS</b>	Good resistance to splash and spillage of most common alkalis
<b>ACIDS</b>	Once cured good resistance to splash and spillage of most acids	<b>ABRASION</b>	Excellent when fully cured. ASTM D4060 80 mg weight loss per 1000 cycles, using a CS-17 wheel and a 1 kg load

### TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Polymeric coating	<b>APPLICATION CONDITIONS</b>			
<b>FINISH</b>	Gloss		Min	Max	
<b>COLOUR</b>	White, N35 Light Grey, N53 Blue Grey & Y14 Golden Yellow <b>DO NOT ADD TINTER TO LUXAFLOOR® FCF AS THIS MAY COMPROMISE THE PRODUCT'S ABILITY TO CURE.</b>	<b>Air Temp.</b>	5°C	40°C	
		<b>Substrate Temp.</b>	5°C	40°C	
		<b>Relative Humidity</b>		85%	
		<b>Concrete Moisture</b>		<10%	
<b>COMPONENTS</b>	Two	<b>COATING THICKNESS (MICRONS)</b>			
<b>VOLUME SOLIDS</b>	75% (White)		Min	Max	Recommended
<b>VOC LEVEL</b>	<215 g/L (White)	<b>Wet film per coat (µm)</b>	70	125	100
<b>FLASH POINT</b>	>23°C	<b>Dry film per coat (µm)</b>	50	90	75
<b>POT LIFE</b>	8 Hours (10 Litre kit, 25°C)	<b>SUITABLE SUBSTRATES</b>	Suitably diamond ground or track blasted concrete. <b>DO NOT USE THIS PRODUCT OVER CONCRETE THAT HAS BEEN PREPARED BY ACID ETCH.</b>		
<b>MIXING RATIO V/V</b>	Part A : 9 Part B : 1	<b>PRIMERS</b>	<b>FOR EXISTING COATINGS OR CONCRETE THAT MAY BE CONTAMINATED: DUREMAX® GPE WITH QUICKTURN™ HARDENER OR LUXEPOXY® 4 WHITE PRIMER.</b>		
<b>THINNER</b>	965-42166 Duthin® 040 965-82095 Duthin® 700	<b>APPLICATION METHODS</b>	Brush, roller, conventional, airless spray or air assisted spray		
<b>PRODUCT CODE</b>	733-38678 N35 Light Grey 733-38716 N53 Blue Grey 733-00026 White 733-39141 Y14 Golden Yellow 976-H0177 Standard Hardener				

### DRYING CHARACTERISTICS AT 75 µm DRY FILM THICKNESS\*

Floor Temperature	Humidity	Touch	Light Traffic	Full Cure	OVERCOAT	
					Min	Max*
5° C	50%	6 Hours	10 Hours	3 Days	10 Hours	2 Days
10° C	50%	4 Hours	8 Hours	3 Days	8 Hours	2 Days
15° C	50%	2 Hours	4 Hours	2 Days	4 Hours	2 Days
25° C	50%	1 Hour	2 Hours	1 Day	2 Hours	2 Days

\*If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion. These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

**SPREADING RATE** 10.0 square metres per litre equals 75 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.

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## 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)
EXISTING CONCRETE	Exterior/ Interior	Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a key	1 <sup>st</sup> Coat Duremax® GPE Quickturn™ Hardener Thin by 10 - 15% 2 <sup>nd</sup> Coat Luxafloor® FCF	125 µm 75 µm
NEW CONCRETE	Exterior/ Interior	Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a key	1 <sup>st</sup> Coat Luxafloor® FCF Thin by 10 - 15% 2 <sup>nd</sup> Coat Luxafloor® FCF	75 µm 75 µm
CONCRETE (non-slip – pedestrian traffic)	Exterior/ Interior	Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a key	1 <sup>st</sup> Coat Duremax® GPE Quickturn™ Hardener Thin by 10 - 15% 2 <sup>nd</sup> Coat Luxafloor® FCF Mix Stir-In Aggregate Fine or Coarse @ 30g/L	125 µm 75 µm
CONCRETE (non-slip – vehicle traffic)	Exterior/ Interior	Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a key	1 <sup>st</sup> Coat Duremax® GPE Quickturn™ Hardener Luxafloor® FCF 2 <sup>nd</sup> Coat Sprinkle Broadcast Aggregate No. 36 at 50g/m <sup>2</sup> while still wet Luxafloor® FCF	125 µm 75 µm 75 µm

NOTE: If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity. Duremax® GPE Quickturn™ hardener has a 2 day recoat window with Luxafloor® FCF at 25°C.

<b>SURFACE PREPARATION</b>	<p><b>New Concrete:</b> Concrete must be at least 28 days old before coating. Remove all laitance, curing compounds, oil, grease and other surface contaminants with Gamlen CA 1 detergent (according to the manufacturer's written instructions and all safety warnings). Diamond grind, track or light shot-blast to remove laitance and provide suitable profile. Remove all dust by vacuum cleaning. Fill any large cracks or voids using Luxepoxy® Filler. <b>IF YOU ARE IN ANY DOUBT ABOUT POTENTIAL CONTAMINANTS IN THE CONCRETE USE DUREMAX® GPE WITH QUICKTURN™ HARDENER AS THE FIRST COAT PRIOR TO USING LUXAFLOOR® FCF.</b></p> <p><b>Concrete with Existing Coating:</b> The existing coating must be well adhered to the concrete substrate and in sound condition (no peeling, blistering etc....) to provide the new coating a good key onto the surface. Test adhesion of existing coating by standard cross hatch adhesion test. If the coating fails, remove it. If coating is sound, remove curing agents, oil, grease and other oily contaminants with Gamlen CA 1 detergent (according to the manufacturer's written instructions and all safety warnings). Use an epoxy filling mortar such as Dulux® Luxepoxy® Filler 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 the new coating with a good key into the surface. Vacuum clean to remove all dust. <b>LUXAFLOOR FCF WILL NOT CURE ON ALKYD BASED OR WATER BASED FLOOR COATINGS. IF YOU ARE IN ANY DOUBT ABOUT THE EXISTING COATING TYPE USE DUREMAX® GPE WITH QUICKTURN™ HARDENER OR LUXEPOXY® 4 WHITE PRIMER AS THE FIRST COAT PRIOR TO USING LUXAFLOOR® FCF.</b></p>			
<b>APPLICATION</b>	Mix each can thoroughly using a power mixer until the contents are uniform. Mix the contents of both packs together thoroughly with a power mixer and let stand for 10 minutes. Box all containers before use to ensure colour consistency. Remix thoroughly before application.			
<b>BRUSH/ROLLER</b>	An 11 nap roller is recommended to achieve the correct dry film thickness, although shorter nap rollers can achieve a smoother finish (though a short nap roller may need an extra coat to achieve the recommended dry film thickness). Thin if necessary with up to 50-100 ml/litre with Duthin® 040 (965-42166) to aid application. When brushing and rolling additional coats may be required to attain the specified thickness. Note - If a highly decorative appearance is required it may be necessary to adjust thinning levels (up to 100 – 150ml/litre), roller type and application technique. <b>DO NOT</b> use this product to fill cracks as the <b>coating will dry significantly slower if the maximum recommended wet film thickness is exceeded.</b>			
<b>CONVENTIONAL SPRAY</b>	Thin up to 100 ml/litre with DUTHIN® 040 (965-42166) to aid atomisation.			
	Typical Set-up	Graco AirPro:	1.8mm (239543)	
		Pressure at Triton 308:	65-100 kPa (10-15 p.s.i.)	
		Pressure at Gun:	385-420 kPa (55-60 p.s.i.)	
<b>AIRLESS SPRAY</b>	Standard airless spray equipment such as a Graco Xtreme 45:1 with a fluid tip of 15-19 thou (0.38-0.48mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Thinning is not normally required but up to 50 ml/litre of Duthin® 040 (965-42166) may be added to aid application.			

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<b>PRECAUTIONS</b>	This is an industrial product designed for use by experienced Protective Coating applicators. 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. The rate of cure is dependent upon temperature and film build. Do not apply at temperatures below 5°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Ensure that you read and understand the safety precautions on the Material Safety Data Sheets for the two components before using. Under no circumstances should water or non-specified thinner be allowed to contaminate the product. Do not add tinter to this product as this may compromise the products ability to cure.
<b>CLEAN UP</b>	Clean all equipment with Duthin® 040 (965-42166) immediately after use.
<b>OVERCOATING</b>	Degrease with Gamlen CA No. 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. Use an epoxy filling mortar such as Dulux® Luxepoxy® Filler to fill any cracks or defects in the concrete. Spot prime bare areas with Luxepoxy® 4 White Primer. Mechanically grind the existing coating to remove any gloss and create a good key for the new coating. Vacuum clean to remove all dust. <b>LUXAFLOOR® FCF WILL NOT CURE ON ALKYD BASED OR WATER BASED FLOOR COATINGS. IF YOU ARE IN ANY DOUBT ABOUT THE EXISTING COATING TYPE USE DUREMAX® GPE WITH QUICKTURN™ HARDENER OR LUXEPOXY® 4 WHITE PRIMER AS THE FIRST COAT PRIOR TO USING LUXAFLOOR® FCF.</b>
<b>SAFETY PRECAUTIONS</b>	<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>
<b>STORAGE</b>	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.
<b>HANDLING</b>	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.
<b>USING</b>	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.
<b>FLAMMABILITY</b>	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 <sub>2</sub> or dry chemical powder. On burning will emit toxic fumes.
<b>WELDING</b>	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

COMPANY INFORMATION		PACKAGING, TRANSPORT AND STORAGE	
Dulux Protective Coatings a division of		<b>PACKAGING</b>	Available in 10 litre packs
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	<b>TRANSPORTATION WEIGHT</b>	1.45 kg/litre (Average of components)
		<b>DANGEROUS GOODS</b>	Part A: Class 3 UN 1263 Part B: Class 3 UN 1263

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