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 is suitable for vehicle traffic in conventional car parks when used in accordance with a Dulux specification. LUXAFLOOR® FCF can be used with LUXAFLOOR® AGGREGATES for slip-resistant finishes.

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

RESISTANCE GUIDE

WEATHERABILITY	Excellent gloss and colour retention on exterior exposure	**SOLVENTS**	Resists splash and spillage of most hydrocarbons, refined petroleum products and most common alcohols
HEAT RESISTANCE	Up to 120°C dry heat	**WATER**	Excellent resistance to fresh and salt water but not suitable for immersion
SALTS	Unaffected by splash and spillage of neutral and alkaline salt solutions	**ALKALIS**	Good resistance to splash and spillage of most common alkalis
ACIDS	Once cured good resistance to splash and spillage of most acids	**ABRASION**	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

CLASSIFICATION	Polymeric coating
FINISH	Gloss
COLOUR	White, N35 Light Grey, N53 Blue Grey, Y14 Golden Yellow (MTO) & N65 Graphite Grey (MTO) **DO NOT ADD TINTER TO LUXAFLOOR® FCF AS THIS MAY COMPROMISE THE PRODUCT'S ABILITY TO CURE.**
COMPONENTS	Two
VOLUME SOLIDS	75% (White)
VOC LEVEL	<215 g/L (White)
FLASH POINT	>23°C
POT LIFE	8 Hours (10 Litre kit, 25°C)
MIXING RATIO V/V	Part A: 9 Part B: 1
THINNER	965-42166 Duthin® 040 965-82095 Duthin® 700
PRODUCT CODE	733-38678 N35 Light Grey 733-38716 N53 Blue Grey 733-00026 White 733-39141 Y14 Golden Yellow (MTO) 733-64799 N65 Graphite Grey (MTO) 976-H0177 Standard Hardener

APPLICATION CONDITIONS

	Min	Max
Air Temp.	5°C	40°C
Substrate Temp.	5°C	40°C
Relative Humidity		85%
Concrete Moisture		<6%

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	70	125	100
Dry film per coat (µm)	50	90	75

SUITABLE SUBSTRATES	Suitably primed diamond ground or track blasted concrete. **DO NOT USE THIS PRODUCT OVER CONCRETE THAT HAS BEEN PREPARED BY ACID ETCH.**
PRIMERS	**ALWAYS USE LUXAFLOOR® EXPRESS PRIMER.**
APPLICATION METHODS	Brush and roller.

DRYING CHARACTERISTICS AT 75 µm DRY FILM THICKNESS*

Floor Temperature	Humidity	Touch	Light Traffic	Full Cure	OVERCOAT Min	OVERCOAT 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 inter-coat adhesion.
These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

SPREADING RATE assuming no losses

10.0 square metres per litre equals 75 µm dry film thickness
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)
CONCRETE	Light Commercial Exterior/Interior	Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a good key.	1st Coat 2nd Coat	Luxafloor® Express Primer Luxafloor® FCF	100 µm 75 µm
CONCRETE	Industrial Exterior/Interior	Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a good key.	1st Coat 2nd Coat 3rd Coat	Luxafloor® Express Primer Luxafloor® FCF Luxafloor® FCF	100 µm 75 µm 75 µm
CONCRETE	Exterior/Interior -Slip Resistant	Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a good key.	1st Coat 2nd Coat 3rd Coat	Luxafloor® Express Primer Luxafloor® FCF While still wet scatter Broadcast Aggregate No. 36 at 50g/m^2 Luxafloor® FCF	100 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. Luxafloor® Express Primer has a 1 day recoat window with Luxafloor® FCF at 25°C.

SURFACE PREPARATION

New Concrete: 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 suitable epoxy filler/surfacer as recommended by your local Protective Coatings Representative. Check moisture content of the floor prior to painting*. Prime with Luxafloor® Express Primer.

*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). If there is any concern about moisture problems with the concrete slab, or for projects greater than 500m^2, 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.

Concrete with Existing Coating: Refer to **Overcoating** guidance below.

APPLICATION

Mix each can thoroughly using a power mixer until the contents are uniform. Mix the contents of both pails together thoroughly with a power mixer. Box all containers before use to ensure colour consistency. Remix thoroughly before application.

BRUSH/ROLLER

An 11mm 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 require 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. DO NOT use this product to fill cracks as the **coating will dry significantly slower if the maximum recommended wet film thickness is exceeded.**

PRECAUTIONS	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. Note –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 (https://www.duluxprotectivecoatings.com.au/media/1542/139-concrete-floors-tyre-staining.pdf) to find out more about tyre staining and how it can be managed. Dulux Protective Coatings cannot guarantee the resistance of our coatings to this effect and will take no responsibility where tyre staining occurs.

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CLEAN UP	Clean all equipment with Duthin® 040 (965-42166) immediately after use
OVERCOATING	Overcoat evaluations must be performed to ensure compatibility between the aged existing coating system and the proposed new coating system. Additionally, it is imperative to understand if an acceptable level of adhesion can be achieved between the two systems. Evaluations which must occur include a visual and physical inspection of the existing coating system and representative test patch evaluations of the new system over the existing aged coating system. Inclusive of the test patch evaluation requires adhesion testing by AS 3894.9, "Determination of Adhesion", Method A, "Knife Test" and/or Method C, "Pull Off Test". An acceptable result for Method A would be a rating of 2 or better. An acceptable result for Method C would be cohesive failure of the substrate. If the tensile strength of the coating is less than the tensile strength of the substrate, the coating system should be considered not suitable for coating over. Typical cohesive failure of concrete is in the range of 1.4 to 2.8 MPa. These evaluations should be accomplished in conjunction with your local Dulux PC Representative. If logistically not possible, contact your local Dulux PC Representative and/or Dulux PC Technical Services to discuss what these evaluations should consist of, and what a successful outcome would look like for a proposed overcoat system. If the existing coat passes the prescribed test/s, the surface should be suitably prepared then primed with Luxafloor® Express Primer before overcoating with Luxafloor® FCF.
SAFETY PRECAUTIONS	**Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au**
STORAGE	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.
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.

COMPANY INFORMATION

Dulux Protective Coatings a division of

DuluxGroup (Australia) Pty Ltd
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 10 litre packs
TRANSPORTATION WEIGHT	1.45 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Class 3 UN 1263 Part B: Class 3 UN 1263