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
LUXafloor® Stir-in Aggregate Coarse: Wet Pendulum of P3 and Oil-Wet Inclining Platform of R12.

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 alkanals

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

APPLICATION CONDITIONS
DO NOT ADD TINTER TO LUXAFLOOR® FCF AS THIS MAY COMPROMISE THE PRODUCT’S ABILITY TO CURE.

COATING THICKNESS (MICRONS)

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
733-36789 N35 Light Grey
733-38716 N53 Blue Grey
733-00026 White
733-39141 Y14 Golden Yellow
976-H0177 Standard Hardener

APPLICATION METHODS

SPREADING RATE
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.

DIRECTIONS CHARACTERISTICS AT 75 μm DRY FILM THICKNESS*

Floor Temperature | Humidity | Touch | Light Traffic | Full Cure | 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.
**SURFACE PREPARATION**

**New Concrete:** 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 Luxafloor Filler.

**Concrete with Existing Coating:** 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 the 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. Remove any bare areas with your chosen floor coating. Mechanically grind the existing coating to remove any gloss and create a rough surface profile. 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 Luxafloor Filler.

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**APPLICATION**

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.

**BRUSH/ROLLER**

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

**CONVENTIONAL SPRAY**

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.)

**AIRLESS SPRAY**

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.
LUXAFLOOR® FCF

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.

CLEAN UP
Clean all equipment with Duthin® 040 (965-42166) immediately after use.

OVERCOATING
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. 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.

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, CO2 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 (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
1.45 kg/litre (Average of components)

DANGEROUS GOODS
Part A: Class 3 UN 1263
Part B: Class 3 UN 1263

Any advice, recommendation, information, assistance or service provided by Dulux Australia in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon Dulux by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Products can be expected to perform as indicated in this sheet so long as applications and application procedures are as recommended. Specific advice should be sought from Dulux for application in highly corrosive areas and for large projects to ensure proper performance.