# LUXAFLOOR® EXPRESS PRIMER

## Two Pack Epoxy Primer — PC704

**FEATURES**
- FAST RETURN TO SERVICE WHEN TOPCOATED WITH LUXAFLOOR® FCF
- SAME DAY RECOAT IS POSSIBLE
- READY FOR USE, NO THINNING REQUIRED
- EXCELLENT ADHESION WITH LUXAFLOOR® FCF

**USES**

LUXAFLOOR® EXPRESS PRIMER is a two-pack quick-drying epoxy primer for concrete floors. This product is ideal to use in conjunction with any pigmented LUXAFLOOR® flooring topcoats to help return the floor to service faster.

LUXAFLOOR® EXPRESS PRIMER is suitable for use in commercial and industrial environments such as warehouses, factories, retail spaces and carparks as a first coat before being topcoated.

Ensure that Luxafloor® Express Primer is topcoated within 24 hours when used with Luxafloor® FCF.

## RESISTANCE GUIDE

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|---|---|---|---|
| **WEATHERABILITY** | Will yellow with time. Will chalk on exposure to UV. Neither yellowing nor chalking detracts from the protective properties of the coating. Use a weatherable topcoat if appearance is important. | **SOLVENTS** | Resists splash and spillage of most hydrocarbons, refined petroleum products and most common alcohols when topcoated. |
| **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 when topcoated. | **ALKALIS** | Good resistance to splash and spillage of most common alkalis when topcoated. |
| **ACIDS** | Good resistance to splash and spillage of most acids when topcoated. | **ABRASION** | Excellent when fully cured and topcoated. |

## TYPICAL PROPERTIES AND APPLICATION DATA (STANDARD HARDENER)

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| **CLASSIFICATION** | Two Pack Epoxy Primer |
| **FINISH** | Low Sheen |
| **COLOUR** | Pale Grey |
| **COMPONENTS** | Two |
| **VOLUME SOLIDS** | 65% |
| **VOC LEVEL** | <285 g/L |
| **FLASH POINT** | >23°C |
| **POT LIFE** | 1 hour (10 litre kit, 25°C) |
| **MIXING RATIO V/V** | Part A : 4 Part B : 1 |
| **THINNER** | 920-08925 Dulux® Epoxy Thinner |
| **PRODUCT CODE** | 780-H0252 Pale Grey<br>976-H0253 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)** | 115 | 230 | 154 |
| **Dry film per coat (µm)** | 75 | 150 | 100 |

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| **SUITABLE SUBSTRATES** | Prepared concrete |
| **TOPCOATS** | Dulux® Luxafloor® pigmented two pack topcoats. |
| **APPLICATION METHODS** | Brush and roller |

*See page 2 for more information about concrete moisture

## DRYING CHARACTERISTICS AT 100 µm DRY FILM THICKNESS* (STANDARD HARDENER)

| | | | | | OVERCOAT | |
|---|---|---|---|---|---|---|
| **Floor Temperature** | **Humidity** | **Touch** | **Light traffic** | **Full Cure** | **Min** | **Max[1]** |
| 5° C | 50% | 8 Hours | 12 Hours | 7 Days | 12 Hours | 48 Hours |
| 10° C | 50% | 6 Hours | 9 Hours | 7 Days | 9 Hours | 48 Hours |
| 15° C | 50% | 4 Hours | 6 Hours | 7 Days | 6 Hours | 48 Hours |
| 25° C | 50% | 2 Hours | 3 Hours | 7 Days | 3 Hours | 24 Hours |
| 35° C | 50% | 1 Hour | 1.5 Hours | 7 Days | 1.5 Hours | 24 Hours |

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

**SPREADING RATE**
**with Standard Hardener**
assuming no losses

**6.5 square metres per litre equals 100 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 is 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<br>2nd Coat | Luxafloor® Express Primer<br>Luxafloor® FCF | 100 µm<br>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<br>2nd Coat<br>3rd Coat | Luxafloor® Express Primer<br>Luxafloor® FCF<br>Luxafloor® FCF | 100 µm<br>75 µm<br>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<br>2nd Coat<br><br>3rd Coat | Luxafloor® Express Primer<br>Luxafloor® FCF with Luxafloor® Broadcast Aggregate No 36<br>Luxafloor® FCF | 100 µm<br>75 µm<br><br>75 µm |
| CONCRETE | High Gloss Interior | Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a good key. | 1st Coat<br>2nd Coat<br>3rd Coat | Luxafloor® Express Primer<br>Luxafloor® HSG<br>Luxafloor® HSG | 100 µm<br>100 µm<br>100 µm |
| CONCRETE | Gloss Interior/Exterior | Remove curing agents and other surface contaminants. Diamond grind or track blast to provide a good key. | 1st Coat<br>2nd Coat | Luxafloor® Express Primer<br>Luxafloor® PTX | 100 µm<br>100 µm |

NOTE: If the application is by brush or roller, additional coats may be necessary to achieve the minimum DFT and full opacity. A 12mm or higher nap roller is recommended.

### 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 3-4 per ICRI 310.2R, dependent on the system. Remove all dust and debris by vacuum cleaning. Large cracks, voids and other surface imperfections should be filled with a suitable epoxy filler/surfacer as recommended by your local Protective Coatings Representative. Check the moisture content of the floor prior to painting*.

*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 vapour 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 vapour 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 using a power mixer for a minimum of 2-3 minutes.

### BRUSH/ROLLER

Use a 12mm or higher nap roller to achieve the specified thickness. Higher nap rollers are recommended to assist application on rough surfaces. Thinning is not normally required, however a small amount (10% or less by volume) of Dulux® Epoxy Thinner (920- 08925) can be added.

### PRECAUTIONS

This is an industrial product designed for use by experienced Protective Coating applicators. Ensure that you read and understand the safety precautions on the relevant Safety Data Sheets before using. 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. The rate of cure is dependent upon temperature. Where application conditions are outside the parameters stated in this Technical Data Sheet, or where any variation to the recommendations is sought, contact your Dulux® Consultant for written specifications prior to application. Clear coatings are not recommended over Luxafloor® Express Primer**. Ensure that Luxafloor® Express Primer is topcoated within 24 hours when used with Luxafloor® FCF.** Freshly mixed material must not be added to previously mixed material.

**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

### CLEAN UP

Clean all equipment with Dulux Epoxy Thinner (920-08925).

# LUXAFLOOR® EXPRESS PRIMER

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| **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 that 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 a 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. |
| **SAFETY PRECAUTIONS** | **Read Technical Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEETs are available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au** |
| **STORAGE** | Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from oxides of carbon and nitrogen, oxidising agents, smoke and other toxic fumes. Store away from sources of heat and/or ignition. Store locked up. Keep the container standing upright. Keep containers closed when not in use - check regularly for leaks. |
| **HANDLING** | Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. |
| **USING** | Use with good ventilation and avoid inhalation of fumes. Wear safety shoes, overalls, gloves, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. |
| **FLAMMABILITY** | This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder). |

## COMPANY INFORMATION


Dulux Protective Coatings a division of

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## PACKAGING, TRANSPORT AND STORAGE

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|---|---|
| PACKAGING | Available in 10 litre kits |
| TRANSPORTATION WEIGHT | 1.626 kg/litre (Average of components) |
| DANGEROUS GOODS | Part A: Class 3 UN 1263<br>Part B: Class 8 UN 2734 |