LUXAFLOOR® ECO2®
Water Borne Epoxy Floor Coating

FEATURES
- TOUGH FILM
- WATER BORNE LOW VOC – LESS THAN 10g/L – AND LOW ODOUR
- EXCELLENT ADHESION TO CONCRETE
- GOOD CHEMICAL RESISTANCE
- AVAILABLE IN A RANGE OF FACTORY MADE AND TINTED COLOURS AND CLEAR

USES
LUXAFLOOR® ECO2® 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® ECO2® can be applied as a slip resistant finish by the addition of LUXAFLOOR® STIR-IN AGGREGATE FINE.

LUXAFLOOR® ECO2® is ideal for use in internal floor areas where the odour of conventional epoxy floor coatings prevents their use. LUXAFLOOR® Clear Coat is suitable for use direct to concrete or as a protective coat over a LUXAFLOOR® ECO2® colour finish.

SPECIFICATIONS
AS/NZS 4586 R11 Slip Rating (when used with Stir-In Aggregate Fine)

RESISTANCE GUIDE
WEATHERABILITY
Will yellow with time and chalk on exterior exposure. Neither yellowing nor chalking detracts from the protective properties of the coating. Use a weatherable topcoat if required for appearance.

SOLVENTS
Good resistance to splash and spillage of aromatic and aliphatic hydrocarbon solvents and alcohols

WATER
Excellent resistance to fresh and salt water but not suitable for immersion.

ALKALIS
Good resistance to splash and spillage of most common alkalis.

ABRASION
Excellent when fully cured. CS-17 Wheels 120mg/1000 cycles (Taber Abraser 1000gm load/wheel)

ADHESION
80 kg/cm² (1100 p.s.i.)

(Johns Manville test)

ACIDS
Good resistance to splash and spillage of dilute acids

TYPICAL PROPERTIES AND APPLICATION DATA
CLASSIFICATION
Water Borne Epoxy Coating

APPLICATION CONDITIONS
Air Temp. 10°C 35°C
Substrate Temp. 10°C 35°C
Relative Humidity 85%
Concrete Moisture <10%

COATING THICKNESS (MICRONS)²
Min Max Recommended
Dry film per coat (μm) 40 80 65
Wet film per coat (μm) 95 190 155

MIXING RATIO V/V
Part A : 1 Part B : 2

POT LIFE
2 hour (10 litre kit, 25°C)

SPREADING RATE
6.5 square metres per litre equals 65 μm dry film thickness

DURING CHARACTERISTICS AT 65 μm DRY FILM THICKNESS

Floor Temperature Humidity Touch Light Traffic Full Cure
10°C 50% 2.5 Hours 48 Hours 7 Days
25°C 50% 1 Hour 24 Hours 7 Days

OVERCOAT
Min Max
Floor Temperature Humidity Touch Light Traffic Full Cure
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.

1 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.

2 Higher film builds can be achieved by spray application but this will extend drying times.

3 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

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.
LUXAFLOOR® ECO2®

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.

<table>
<thead>
<tr>
<th>SURFACE</th>
<th>ENVIRONMENT</th>
<th>PREPARATION GUIDE</th>
<th>SYSTEM</th>
<th>DFT (μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCRETE</td>
<td>Interior</td>
<td>Remove curing agents and other surface contaminants. Diamond grind or track blast</td>
<td>1st Coat</td>
<td>65 μm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Luxafloor® ECO2®</td>
<td></td>
</tr>
<tr>
<td>CONCRETE</td>
<td>Interior</td>
<td>Remove curing agents and other surface contaminants. Diamond grind or track blast</td>
<td>2nd Coat</td>
<td>65 μm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Luxafloor® ECO2®</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

SURFACE PREPARATION

Concrete Floors: Concrete must be at least 28 days old before coating. Remove curing compounds, oil, grease and other surface contaminants. Diamond grind or track blast concrete floors to remove laitance and to provide a suitable profile. Remove all dust by vacuum cleaning. Fill any large cracks or voids using Luxepoxy® Filler.

APPLICATION

Mix each can thoroughly using a power mixer until the contents are uniform. Ensure bases have been tinted to the correct colour before use. DULUX® ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF INCORRECT COLOUR. Mix the contents of both packs together thoroughly with a power mixer and let stand for 3 minutes. Box all containers before use to ensure colour consistency. Remix thoroughly before application. To aid application and penetration, thin the first coat up to 15% with fresh potable water toward the end of the mixing process.

BRUSH/ROLLER

Cut in with brush around perimeter of floor, then apply by roller. Apply even coats of mixed material to the prepared surface. Dulux® recommends that typical “X” and “Y” roller patterns be used, working in small areas of up to 10m² at a time, keeping a wet-edge moving forward. When brushing and rolling additional coats may be required to attain the specified thickness.

CONVENTIONAL SPRAY

All equipment previously used with solvent based paints should be flushed sequentially with acetone, methylated spirits and finally water before use.

Typical Set-up
- Graco AirPro 1.8mm (239543)
- Pressure at Triton 308: 70-100 kPa (10-15 p.s.i.)
- Pressure at Gun: 380-410 kPa (55-60 p.s.i.)

AIRLESS SPRAY

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.

PRECAUTIONS

This product is not recommended for car parks or garage floors. This is an industrial product designed for use by experienced Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your 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. Do not use any two pack product past its pot life, even if it appears fit for use. Product applied past its pot life will develop poor or patchy gloss, brittleness or other defects. Freshly mixed material must not be added to material that has been mixed for some time. The rate of cure is dependent upon temperature. Do not apply at temperatures below 5°C or where the surface temperature is below 5°C. Do not apply at relative humidity above 85% or where the surface is less than 3°C above the dewpoint. Product should be protected against ponding water for 24 hours after application. After this period ponding water may cause temporary lightening of the colour, which will recover after the surface is dried. When applying this product to broad surfaces, use only one application method to avoid colour variation or streaking.

CLEAN UP

Clean all equipment by thoroughly flushing with water and then ethanol or methylated 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. Use an epoxy filling mortar such as Dulux® Luxepoxy® Filler to fill any cracks or defects in the concrete. 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

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

Both components are NOT classified as dangerous goods for transport or storage. Store in well ventilated bunded area under cover and away from sources of heat. 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 non flammable. On burning will emit toxic fumes. Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

COMPANY WELDING

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.

PC 296 August 2018 Page 2 of 2