

NZDU02693 Dulux Luxafloor ECO2 Eggshell on New Concrete Flooring [Interior]

Scope of Works

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 and rubber-tired vehicle traffic. Can be applied as a slip resistant finish to provide maximum safety by using a suitable aggregate. Refer to Product Data Sheet NZDI1413 LUXAFLOOR Aggregate. LUXAFLOOR ECO2 is ideal for use in internal floor areas where the odour of conventional epoxy floor coatings prevents their use. INTERIOR CONCRETE FLOORS - WATER BASED, 2 PACK EPOXY, LOW VOC SYSTEM Gloss level: Eggshell Coating type: Waterborne epoxy semi gloss

Substrate and Substrate Preparation

Substrate Notes

CONCRETE

A mixture of Portland cement, fine and coarse mineral aggregates, water and additives. Concrete is generally reinforced with mild steel bars and/or mesh. Unless the concrete is suitably coated, it is prone to spalling, particularly in or near cities, industrial areas and near the coast. Concrete comes in a range of densities, and these can affect the adhesion of coatings.

Substrate Preparation Notes

ASSESS SUITABILITY

New concrete floors shall be cured for 28 days minimum. If a wax based curing compound has been used, the coating of the concrete is not recommended as the wax prevents adhesion to the concrete.

CLEAN

Remove all surface contamination such as dirt, dust, efflorescence, curing compounds, bond breakers, grease or oils by washing with a free-rinsing, alkaline detergent. Oil or grease stains may require steam cleaning. Rinse with fresh water to remove all detergent residues. A clean surface is indicated when the rinsing water wets out the surface instead of beading on the surface. Repeat until the surface is clean. Efflorescence may also be removed with an acid treatment, followed by washing down the surface with water.

ABRADE

Diamond grind, track blast or shot blast the floor to remove surface laitance and create a sound, profiled substrate for topcoating. All surfaces should be clean, free of dust and dry prior to coating.

OR

ACID ETCH

Abrasion is generally preferred over acid etching, as abrasion gives better key into the surface.

1. Add 1 part of 33% Hydrochloric Acid to 2 parts water to make a 10% Hydrochloric acid solution. Always add acid to water and wear appropriate protective equipment. 2. Apply liberally to cover the floor using a large watering can. Apply at 3m2 per litre MINIMUM. 3. Work the acid into the concrete with a stiff-bristled yard broom for 15 minutes. Bubbling at the water/concrete interface should occur. 4. Neutralize with a mild alkaline detergent, working the detergent into the concrete with the broom. Wash with liberal quantities of clean water. High-pressure wash to 3,000 PSI will ensure a faster and more thorough result.

DUST CLEAN

Remove all dust, coating residue and abrasive grit from the surface by industrial vacuum recovery or by washing down again with an alkali based degreasing solution, followed by thorough rinsing with fresh water. Pay particular attention to cracks and expansion joints.

REPAIR SURFACE IMPERFECTIONS

Fill all cracks, blowholes and other imperfections with a suitable solvent tolerant filler and allow to cure. Do NOT fill expansion joints. Use an epoxy filling mortar to fill any cracks, defects or blowholes in the concrete.

CHECK MOISTURE

Ensure that the floor is dry before coating; the moisture content of the bare concrete should be no greater than 10%.

COAT

Apply the floor coating system in strict accordance with the technical data sheets and specification without delay before the floor becomes recontaminated.

ADDITIONAL NOTES:

- For successful floor coatings, adequate key into the substrate is vital. Abrasion or etching is required for smooth substrates.

Coating System Summary

- | | |
|------------|-------------------------------|
| • 1st Coat | Dulux Luxafloor ECO2 Eggshell |
| • 2nd Coat | Dulux Luxafloor ECO2 Eggshell |

Coating System

1st Coat — Dulux Luxafloor ECO2 Eggshell

Coat Type
1st Coat

Datasheet
NZDU00547 Dulux Luxafloor ECO2 Eggshell

Read the full Datasheet details at [Dulux Luxafloor ECO2 Eggshell](#)

Application Methods



Air Spray



Airless Spray



Brush



Roller

	Min	Max	Recommended
Theoretical Spread Rate (m ² /L)			6.5
Wet Film Per Coat (microns)			155
Dry Film Per Coat (microns)			65
Recoat Time **	4 Hours	48 Hours	

Meets ECNZ V.O.C. Requirements?
Not Applicable

2nd Coat — Dulux Luxafloor ECO2 Eggshell

Coat Type
2nd Coat

Datasheet
NZDU00547 Dulux Luxafloor ECO2 Eggshell

Read the full Datasheet details at [Dulux Luxafloor ECO2 Eggshell](#)

Application Methods



Air Spray



Airless Spray



Brush



Roller

	Min	Max	Recommended
Theoretical Spread Rate (m ² /L)			6.5
Wet Film Per Coat (microns)			155
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Meets ECNZ V.O.C. Requirements?
Not Applicable

Coating System Notes

* Theoretical Coverage is the area is the area covered by 1 Litre of material at the specification 'Dry Film Thickness' without a loss to a smooth and non porous surface.

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The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

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WHERE LEAD MAY BE PRESENT: The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS/ NZS 4361 Parts 1 and 2 and Worksafe Australia or New Zealand guidelines.