NZDU03546 Dulux Weathermax HBR Gloss on New Concrete Flooring [Exterior]

Scope of Works

DULUX Durebild STE is a versatile, two-pack, high solids epoxy that can be easily applied by spray in shop and by brush and roller on site. Durebild STE's surface tolerant feature makes it an excellent universal tie-coat over previously painted surfaces or as a spot-primer and intermediate coat over power tool cleaned steel. The high build characteristics allow you to apply Durebild STE to higher film builds with fewer coats, saving you time and money. DULUX Weathermax HBR is a high performance coating that exhibits excellent gloss and colour retention, even during extended service periods in severe industrial and marine environments. This floor system has a smooth, gloss finish and exhibits excellent colour and gloss retention. For areas requiring a slip resistant finish, please refer to Duspec No. NZ_SC10988, Dulux Weathermax HBR Gloss / Slip Resistant on New Concrete Flooring [Exterior]. EXTERIOR CONCRETE SURFACES - VEHICLE TRAFFIC Gloss level: Gloss Coating type: Epoxy mastic/Polyurethane 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 Durebild® STE Semi Gloss
- 2nd Coat — Dulux Durebild® STE Semi Gloss
- 3rd Coat — Dulux Weathermax HBR Gloss

Coating System

1st Coat — Dulux Durebild® STE Semi Gloss

Coat Type	Datasheet
1st Coat	**NZDU00482 Dulux Durebild® STE Semi Gloss**

Read the full Datasheet details at Dulux Durebild® STE Semi Gloss

Application Methods

Air Spray **Airless Spray** **Brush** **Roller**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)			6.7
Wet Film Per Coat (microns)			150
Dry Film Per Coat (microns)			125
Recoat Time **	14 Hours	4 Weeks*	

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

2nd Coat — Dulux Durebild® STE Semi Gloss

Coat Type	Datasheet
2nd Coat	**NZDU00482 Dulux Durebild® STE Semi Gloss**

Read the full Datasheet details at Dulux Durebild® STE Semi Gloss

Application Methods

Air Spray **Airless Spray** **Brush** **Roller**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)			6.7
Wet Film Per Coat (microns)			150
Dry Film Per Coat (microns)			125
Recoat Time **	14 Hours	4 Weeks*	

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

3rd Coat — Dulux Weathermax HBR Gloss

Coat Type	Datasheet
3rd Coat	**NZDU00492 Dulux Weathermax HBR Gloss**

Read the full Datasheet details at Dulux Weathermax HBR Gloss

Application Methods

Air Spray **Airless Spray** **Brush** **Roller**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)			**7**
Wet Film Per Coat (microns)			**145**
Dry Film Per Coat (microns)			**100**
Recoat Time **	**10 Hours**	**Indefinite**	

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

Coating System Notes
* Theorectical Coverage is the area is the area covered by 1 Litre of material at the specifiaction '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.