

## AUAV00060 Dulux Avista Concrete Sealer Tintable Base Semi Gloss on Aged Uncoated Substrate Concrete floors [Exterior]

### Scope of Works

Dulux Avista Concrete Sealer Tintable Base is to be mixed with Dulux Avista Concrete Sealer Colour Tint to provide a protective coloured coating. It helps protect the substrate from weathering and ingress of dirt and grime.

### Substrate and Substrate Preparation

#### Substrate Notes

Concrete is a mixture of Portland cement, fine and coarse mineral aggregates, water and admixtures. Concrete floor slab construction consists of concrete poured into formwork in which reinforcing steel had been laid. The formwork (usually timber) holds the slab together as the concrete cures. The concrete should be kept wet according to best practice methods to allow the cement to fully hydrate during the curing process of 4-6 weeks to allow it to reach its design strength. Methods include ponding, wet hessian, wet sand or plastic sheet. If allowed to dry out prematurely, concrete will develop laitance, a weak, friable layer on the surface.

A waterproofing membrane should be laid underneath the slab to prevent moisture from rising up from the soil through the slab and causing efflorescence. The presence of laitance or efflorescence will interfere with coating adhesion.

#### Substrate Preparation Notes

##### Assess suitability

Examine the floor for accumulated dirt, dust, oily deposits, laitance, efflorescence and other surface contaminants. Check the extent of wear, shrinkage or movement cracks, pits, mechanical damage and other imperfections.

##### Clean surface

Remove all surface and subsurface contamination using by a cleaning method appropriate for the contamination type encountered. For example, remove dirt, dust, grease or oils by washing with a free-rinsing, alkaline detergent such Gamlen CA 1 in strict accordance with the manufacturers written instructions and all safety warnings. Pay attention to expansion joints. Thoroughly rinse with fresh potable 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. Allow surface to dry.

##### Repair surface imperfections

Thoroughly and completely clean out, rout out (as required) and fill cracks, voids or other imperfections with a two-pack epoxy repair paste such as Nitomortar AP® strictly according to the technical data sheet.

Do not fill expansion joints with any rigid fillers. Leave these until after the floor is painted.

Note: Do not overcoat epoxy repair mortars with any clearcoat in areas exposed to UV; UV exposure will cause chalking of the epoxy surface and potential delamination of the coating system.

##### Abrade surface

Diamond grind, blast-track or mechanically abrade concrete floors in strict accordance with SSPC-SP 13/NACE No. 6 Joint Surface Preparation Standard "Surface Preparation of Concrete" to remove laitance, curing compounds, hardeners, loosely adhering concrete and/or other contaminants. The resultant surface should be a sound, uniform substrate, with a concrete surface profile in the range of CSP 2-3 as laid out in ICRI Guideline 310.2R-2013, "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair". Note Dulux does not recommend acid etching as a form of surface preparation. Remove all dust by thorough vacuum cleaning.

##### Check moisture

Check moisture content of the floor prior to painting and ensure that it is no greater than 6%\*.

\* To minimise the risk of moisture interference, Dulux recommends the following 2 tests be conducted prior to coating; ASTM F2659-10 "Standard Guide for Preliminary Evaluation of Concrete, Gypsum Cement and other Floor Slabs and Screeds using a Non-Destructive Electronic Moisture Meter" (Moisture Content to be <6%), and ASTM D4263 "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method" (no visible moisture present). If there is concern about moisture in the substrate, refer to Dulux Protective Coatings for further evaluation.

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 vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, chlorides or Alkali Silica Reaction (ASR) is suspected.

##### Coat surface

Check that the surface is clean, dust-free and defect-free prior to coating. Apply the floor coating system in strict accordance with the technical data sheets and specification without delay before the floor becomes recontaminated. Allow floor coating system to fully cure.

Seal structural control or expansion joints with a flexible polyurethane sealant such as Parchem® Nitoseal PU 400 in strict accordance with the technical data sheet. Do not paint over floor joint sealant.

### Coating System Summary

- 1st Coat Dulux Avista Concrete Sealer Tintable Base Semi Gloss

- 2nd Coat Dulux Avista Concrete Sealer Tintable Base Semi Gloss
- Optional Dulux Avista Concrete Sealer Tintable Base Semi Gloss

Coating System

1st Coat — Dulux Avista Concrete Sealer Tintable Base Semi Gloss

Coat Type <b>1st Coat</b>	Datasheet <b>AUAV00016 Dulux Avista Concrete Sealer Tintable Base Semi Gloss</b>		
Read the full Datasheet details at <a href="https://duspecplus.com.au/pdf/datasheet/dulux-avista-concrete-sealer-tintable-base-semi-gloss/863618d9-bf47-4d89-bee8-8b05837b6ff3">https://duspecplus.com.au/pdf/datasheet/dulux-avista-concrete-sealer-tintable-base-semi-gloss/863618d9-bf47-4d89-bee8-8b05837b6ff3</a>			
Components <b>2</b>	Mixing Ratio <b>19 parts Dlux Avista Tintable Sealer to 1 part Dulux Avista Tinter</b>		
Pot Life <b>Not Applicable as this is an air dry material. No reaction occurs.</b>			
Application Methods			
 Air Spray  Airless Spray  Brush  Roller  Pad			
	Min	Max	Recommended
Theoretical Spread Rate *	<input type="text" value="5"/>	<input type="text" value="3"/>	<input type="text" value="5"/>
Wet Film Per Coat (microns)	<input type="text" value="200"/>	<input type="text" value="300"/>	<input type="text" value="200"/>
Dry Film Per Coat (microns)	<input type="text" value="40"/>	<input type="text" value="60"/>	<input type="text" value="40"/>
Recoat Time **	<input type="text" value="120"/>	<input type="text" value="120"/>	<input type="text" value="120"/>
V.O.C. Level <b>689grams per litre</b>	Meets GBCA V.O.C. Requirements? <b>No</b>		

Coating Application Details

**Mixing in colour tint**

Applicable to Dulux Avista Tintable Base  
 Stir Dulux Avista Sealer Colour Tint well before use  
 Add 1L tint to 19L Concrete Sealer Tintable Base  
 Mix thoroughly with a hand paddle or "potato masher" for 3-4 minutes  
 Sealer must be mixed regularly during application to ensure colour consistency  
 When applying coloured sealer, a paint tray and solvent resistant lambswool roller must be used

**Application instructions for new concrete**

Pour the tinted sealer into a roller tray and roll evenly onto the surface using a good quality lambswool roller.  
 Ensure the sealer is not applied too thick and no pooling occurs. Avoid excess sealer build up on the edges of the roller.  
 This can lead to roller lines on the surface.  
 To obtain a lower slip factor it is advisable to use the appropriate Slip Reducing Additive with the sealer for better grip under adverse conditions e. g. wet areas and pool surrounds. See Dulux Avista Slip Reducing Additive TDS for details.

**Drying time**

Allow 2 hours between coats.  
 Do not apply sealer at temperatures below 8°C or above 35°C.

**Curing time**

After sealing it is recommended that the sealed surface be protected from:  
 Rain/water/sprinkler systems for minimum 2 hours  
 Foot traffic for a minimum of 24 hours  
 Vehicle traffic for a minimum of 5 days

**Dry test**

Place a piece of plastic over a small area (450mm X 450mm), tape the edges and leave for 1 hour.  
 Remove the plastic, if there is no moisture on either surface, the concrete is sufficiently dry for sealing.  
 Alternatively, ensure the surface is dry using a moisture meter. The moisture content must be below 10% prior to sealer application.

**Maintenance**

Remove oil, grease and other contaminants immediately with a general purpose cleaner.

**Limitations**

Do not seal in high winds or if rain is likely.  
 Do not apply over painted surfaces. Paint removal required.  
 Application of sealer can lower slip resistance (Dulux Avista Slip Reducing Additive available).  
 Not suitable for food preparation areas.  
 Not a waterproofing membrane.  
 Do not use untinted.  
 Not recommended to seal at extreme temperatures below 8°C and above 35°C.

**Coverage**

1 x 20 litre drum covers approximately 60 to 100m<sup>2</sup> per coat, depending on the porosity of the concrete.

**Storage conditions**

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Refer to SDS.

**Cleaning**

Clean up with Dulux Avista Solvent.

**Safety**

Recommended PPE:  
 Organic vapour respirator mask  
 Solvent resistant gloves  
 Safety eye wear  
 Appropriate solvent and acid resistant foot wear

SDS Number <b>PARGHSEN000581</b>	SDS Link <a href="https://go.lupinsys.com/duluxgroup/harms/public/materials/43e90ebd53139161416eeaa233932745-published/attachments_api/09415c5851453b653ed278e7ff9f5f64/search_api/FD278051_DULUX_AVISTA_SEALER_TINTABLE_BASE-AUS_GHS.pdf">https://go.lupinsys.com/duluxgroup/harms/public/materials/43e90ebd53139161416eeaa233932745-published/attachments_api/09415c5851453b653ed278e7ff9f5f64/search_api/FD278051_DULUX_AVISTA_SEALER_TINTABLE_BASE-AUS_GHS.pdf</a>
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**2nd Coat — Dulux Avista Concrete Sealer Tintable Base Semi Gloss**

Coat Type <b>2nd Coat</b>	Datasheet <b>AUAV00016 Dulux Avista Concrete Sealer Tintable Base Semi Gloss</b>
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Read the full Datasheet details at <https://duspecplus.com.au/pdf/datasheet/dulux-avista-concrete-sealer-tintable-base-semi-gloss/863618d9-bf47-4d89-bee8-8b05837b6ff3>

Components <b>2</b>	Mixing Ratio <b>19 parts Dlux Avista Tintable Sealer to 1 part Dulux Avista Tinter</b>		
Pot Life <b>Not Applicable as this is an air dry material. No reaction occurs.</b>			
Application Methods  Air Spray  Airless Spray  Brush  Roller  Pad			
	Min	Max	Recommended
Theoretical Spread Rate *	<input type="text" value="5"/>	<input type="text" value="3"/>	<input type="text" value="5"/>
Wet Film Per Coat (microns)	<input type="text" value="200"/>	<input type="text" value="300"/>	<input type="text" value="200"/>
Dry Film Per Coat (microns)	<input type="text" value="40"/>	<input type="text" value="60"/>	<input type="text" value="40"/>
Recoat Time **	<input type="text" value="120"/>	<input type="text" value="120"/>	<input type="text" value="120"/>
V.O.C. Level <b>689grams per litre</b>	Meets GBCA V.O.C. Requirements? <b>No</b>		

Coating Application Details

**Mixing in colour tint**

Applicable to Dulux Avista Tintable Base  
 Stir Dulux Avista Sealer Colour Tint well before use  
 Add 1L tint to 19L Concrete Sealer Tintable Base  
 Mix thoroughly with a hand paddle or "potato masher" for 3-4 minutes  
 Sealer must be mixed regularly during application to ensure colour consistency  
 When applying coloured sealer, a paint tray and solvent resistant lambswool roller must be used

**Application instructions for new concrete**

Pour the tinted sealer into a roller tray and roll evenly onto the surface using a good quality lambswool roller.  
 Ensure the sealer is not applied too thick and no pooling occurs. Avoid excess sealer build up on the edges of the roller.  
 This can lead to roller lines on the surface.  
 To obtain a lower slip factor it is advisable to use the appropriate Slip Reducing Additive with the sealer for better grip under adverse conditions e. g. wet areas and pool surrounds. See Dulux Avista Slip Reducing Additive TDS for details.

**Drying time**

Allow 2 hours between coats.  
 Do not apply sealer at temperatures below 8°C or above 35°C.

**Curing time**

After sealing it is recommended that the sealed surface be protected from:  
 Rain/water/sprinkler systems for minimum 2 hours  
 Foot traffic for a minimum of 24 hours  
 Vehicle traffic for a minimum of 5 days

**Dry test**

Place a piece of plastic over a small area (450mm X 450mm), tape the edges and leave for 1 hour.  
 Remove the plastic, if there is no moisture on either surface, the concrete is sufficiently dry for sealing.  
 Alternatively, ensure the surface is dry using a moisture meter. The moisture content must be below 10% prior to sealer application.

**Maintenance**

Remove oil, grease and other contaminants immediately with a general purpose cleaner.

**Limitations**

Do not seal in high winds or if rain is likely.  
 Do not apply over painted surfaces. Paint removal required.  
 Application of sealer can lower slip resistance (Dulux Avista Slip Reducing Additive available).  
 Not suitable for food preparation areas.  
 Not a waterproofing membrane.  
 Do not use untinted.  
 Not recommended to seal at extreme temperatures below 8°C and above 35°C.

**Coverage**

1 x 20 litre drum covers approximately 60 to 100m<sup>2</sup> per coat, depending on the porosity of the concrete.

**Storage conditions**

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Refer to SDS.

**Cleaning**

Clean up with Dulux Avista Solvent.

**Safety**

Recommended PPE:  
 Organic vapour respirator mask  
 Solvent resistant gloves  
 Safety eye wear  
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**Optional — Dulux Avista Concrete Sealer Tintable Base Semi Gloss**

Coat Type <b>Optional</b>	Datasheet <b>AUAV00016 Dulux Avista Concrete Sealer Tintable Base Semi Gloss</b>
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Read the full Datasheet details at <https://duspecplus.com.au/pdf/datasheet/dulux-avista-concrete-sealer-tintable-base-semi-gloss/863618d9-bf47-4d89-bee8-8b05837b6ff3>

Components <b>2</b>	Mixing Ratio <b>19 parts Dulux Avista Tintable Sealer to 1 part Dulux Avista Tinter</b>		
Pot Life <b>Not Applicable as this is an air dry material. No reaction occurs.</b>			
Application Methods  Air Spray  Airless Spray  Brush  Roller  Pad			
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Theoretical Spread Rate *	<input type="text" value="5"/>	<input type="text" value="3"/>	<input type="text" value="5"/>
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Dry Film Per Coat (microns)	<input type="text" value="40"/>	<input type="text" value="60"/>	<input type="text" value="40"/>
Recoat Time **	<input type="text" value="120"/>	<input type="text" value="120"/>	<input type="text" value="120"/>
V.O.C. Level <b>689grams per litre</b>	Meets GBCA V.O.C. Requirements? <b>No</b>		

Coating Application Details

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**Drying time**

Allow 2 hours between coats.  
 Do not apply sealer at temperatures below 8°C or above 35°C.

**Curing time**

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**Limitations**

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 Not suitable for food preparation areas.  
 Not a waterproofing membrane.  
 Do not use untinted.  
 Not recommended to seal at extreme temperatures below 8°C and above 35°C.

**Coverage**

1 x 20 litre drum covers approximately 60 to 100m<sup>2</sup> per coat, depending on the porosity of the concrete.

**Storage conditions**

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Refer to SDS.

**Cleaning**

Clean up with Dulux Avista Solvent.

**Safety**

Recommended PPE:  
 Organic vapour respirator mask  
 Solvent resistant gloves  
 Safety eye wear  
 Appropriate solvent and acid resistant foot wear

SDS Number

**PARGHSEN000581**

SDS Link

[https://go.lupinsys.com/duluxgroup/harms/public/materials/43e90ebd53139161416eeaa233932745-published/attachments\\_api/09415c5851453b653ed278e7ff9f5f64/search\\_api/FD278051\\_DULUX\\_AVISTA\\_SEALER\\_TINTABLE\\_BASE-AUS\\_GHS.pdf](https://go.lupinsys.com/duluxgroup/harms/public/materials/43e90ebd53139161416eeaa233932745-published/attachments_api/09415c5851453b653ed278e7ff9f5f64/search_api/FD278051_DULUX_AVISTA_SEALER_TINTABLE_BASE-AUS_GHS.pdf)

Coating System Notes

\* Practical Spreading Rate will vary from the quoted Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness.  
 \*\* Recoat times are quotes for 25°C and 50% relative humidity, these may vary under different conditions.

## Disclaimer

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Any information provided in this Duspec+ is given in good faith and is believed by Dulux to be correct at the time of publication. Products and coating systems can be expected to perform as indicated in this Duspec+ document, provided the substrate is in good condition, the coatings are applied by a suitably experienced and skilled applicator, and the preparation, application and maintenance is followed strictly as set out in this Duspec+ document, and as recommended on the applicable Dulux Product Data Sheet and Safety Data Sheets for the relevant products (available from [www.duspecplus.com.au](http://www.duspecplus.com.au)). Climatic conditions at application time can affect Duspec+ documentation suitability and product performance.

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.

Where any liability of Dulux in respect of this Specification cannot by law be excluded, Dulux's liability is limited, as permitted by law and at Dulux's option, to resupply of the relevant products or services or to reimbursing the cost of those products or services.

**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 4361 Parts 1 and 2 and Worksafe Australia guidelines.