

AUAV00068 Dulux Avista Resurfacing Base Compound / with 2 Pack Urethane Sealer on New Exposed aggregate floors [Exterior]

Scope of Works

The Avista Resurfacing System is a decorative cement based coating, suitable for application over existing cured concrete surfaces.

Substrate and Substrate Preparation

Substrate Notes

Exposed aggregate refers to concrete substrates that feature decorative stone aggregates or small pebbles at least 1mm in size on the surface. The surface finish can vary widely, depending on the aggregate type and colour and method of application. One method is to add the decorative aggregate to the concrete mix and to spray a surface retarder onto the freshly laid wet concrete surface. Once the concrete has set, the surface is low pressure washed to remove the surface retarder and loose concrete to expose the decorative aggregate component. Another method is to embed the decorative aggregate into the freshly laid wet concrete surface.

"Pebblecrete" can refer either to exposed aggregate or to a polymeric render coating comprising a resin filled with decorative pebbles, which is trowelled onto the surface and levelled off. The polymeric version looks like exposed aggregate but can present serious challenges for coating adhesion.

The profile and condition of exposed aggregate on exposure can be of variable consistency resulting in loose aggregate and/or friability of the surface. It is recommended that a test area representative of the worst standard of surface degradation be prepared in accordance with any proposed coatings specification for review of technical and aesthetic performance.

Exposed aggregate finished may contain iron-bearing minerals which oxidise to form water-soluble stains resembling rust. Where such oxide staining is present, specific preparation and the use of a solvent borne coating is required to prevent bleeding of the stain through subsequent coatings.

Substrate Preparation Notes

Assess suitability

Concrete must be placed, compacted and cured in accordance with good building practice for 28 days minimum. Examine the floor for the presence of dirt, oils, grease, curing agents, laitance, efflorescence and other surface contaminants. If a wax based curing compound had been used, coating of the concrete is not recommended as the wax prevents adhesion to the concrete. Check the extent of cracks, voids, 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 as 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® in strict accordance with 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

- Primer Dulux Avista Resurfacing Primer
- 1st Coat Dulux Avista Resurfacing Base Compound
- 2nd Coat Dulux Avista Resurfacing Base Compound
- 3rd Coat Dulux Avista Concrete Sealer 2 Pack Urethane Gloss
- 4th Coat Dulux Avista Concrete Sealer 2 Pack Urethane Gloss





Coating System





Primer — Dulux Avista Resurfacing Primer

Coat Type Primer	Datasheet AUAV00007 Dulux Avista Resurfacing Primer		
Read the full Datasheet details at Dulux Avista Resurfacing Primer			
Components 1			
Application Methods  Roller  Floor Squeegee  Broom			
Theoretical Spread Rate (m ² /L)	Min <input type="text"/>	Max <input type="text"/>	Recommended <input type="text" value="10"/>
Meets GBCA V.O.C. Requirements? Not Applicable			
Coating Application Details Shake Avista Primer container well before opening and then dilute 1 part Primer to 3 parts water in a clean bucket (4 litres of mixed Primer will cover approximately 40m ² depending on the porosity of the concrete). Apply the mixed primer to the surface using a soft broom, roller or sprayer. Spread evenly across the surface so primer doesn't pool as this can affect adhesion. Whilst the surface is still wet, the resurfacing coating can be applied. Whilst the surface is still wet, Dulux Avista Resurfacing Compound can be applied as per the instructions on the bag.			

1st Coat — Dulux Avista Resurfacing Base Compound

Coat Type 1st Coat	Datasheet AUAV00006 Dulux Avista Resurfacing Base Compound		
Read the full Datasheet details at Dulux Avista Resurfacing Base Compound			
Components 3			
Pot Life approx. 30 minutes, depending on ambient conditions	Yield 12.5L		
Application Methods			

 Floor Squeegee  Broom  Trowel  Hopper Gun			
	Min	Max	Recommended
Theoretical Spread Rate (m ² /L)	<input type="text" value="15"/>	<input type="text" value="30"/>	<input type="text"/>
Recoat Time **	<input type="text" value="40"/>	<input type="text" value="NA"/>	<input type="text"/>
V.O.C. Level 11 grams per litre	Meets GBCA V.O.C. Requirements? Not Applicable		
<p>Coating Application Details</p> <p>Add required amount of clean potable water (3.6 - 4.0 L) in a clean 20L bucket and add Avista Resurfacing Colour Oxide and mix thoroughly with mechanical mixer at low speed until mix colour is uniform. Slowly add Dulux Avista Resurfacing Base Compound, mixing continually. Once full content has been added, mix for a further 3 minutes. This step is critical in activating the polymers to achieve an even consistent mixture.</p> <p>First coat should always be applied to a damp, primed surfaces. Applicable to all trowel or squeegee application methods.</p> <p>Squeegee/Trowel application (recommended for first coat)</p> <p>Pour a manageable quantity of Dulux Avista mixture onto the damp, primed concrete surface. Use squeegee or trowel evenly spread the resurfacing compound over the surface. Do not exceed a thickness of 4 mm per coat, as this may lead to shrinkage cracking. Subsequent trowel or spray coats can be applied to achieve desired decorative finish.</p> <p>Spray application</p> <p>Application will require a moisture trap air compressor & hopper gun. Recommended minimum compressor specs: 12 cfm with a 70L tank. Add mix to hopper, ensuring not to overfill - recommend half full. Before applying to surface, spray on separate fibro test board to obtain desired texture. Adjust pressure to vary texture. Spray evenly across the surface, holding the hopper approximately 600mm from the ground. Once area has been completely covered, allow to dry sufficiently to walk on.</p> <p>Minimum 2 coats at total of minimum 3mm thickness required to achieve sufficient wear factor. The Dulux Avista Resurfacing System must be sealed once the surface is completely dry. Options for sealing include:</p> <ul style="list-style-type: none"> - Dulux Avista General Purpose Sealer (S/G or matt) - Dulux Avista Extended Wear Sealer - Dulux Avista 2 Pack Urethane - Dulux Avista Polyaspartic Sealer 			
SDS Number	SDS Link View SDS Link		

2nd Coat — Dulux Avista Resurfacing Base Compound			
Coat Type 2nd Coat	Datasheet AUAV00006 Dulux Avista Resurfacing Base Compound		
Read the full Datasheet details at Dulux Avista Resurfacing Base Compound			
Components 3			
Pot Life approx. 30 minutes, depending on ambient conditions	Yield 12.5L		
<p>Application Methods</p>  Floor Squeegee  Broom  Trowel  Hopper Gun			
	Min	Max	Recommended
Theoretical Spread Rate (m ² /L)	<input type="text" value="15"/>	<input type="text" value="30"/>	<input type="text"/>
Recoat Time **	<input type="text" value="40"/>	<input type="text" value="NA"/>	<input type="text"/>

V.O.C. Level 11 grams per litre	Meets GBCA V.O.C. Requirements? Not Applicable
<p>Coating Application Details</p> <p>Add required amount of clean potable water (3.6 - 4.0 L) in a clean 20L bucket and add Avista Resurfacing Colour Oxide and mix thoroughly with mechanical mixer at low speed until mix colour is uniform.</p> <p>Slowly add Dulux Avista Resurfacing Base Compound, mixing continually.</p> <p>Once full content has been added, mix for a further 3 minutes. This step is critical in activating the polymers to achieve an even consistent mixture.</p> <p>First coat should always be applied to a damp, primed surfaces. Applicable to all trowel or squeegee application methods.</p> <p>Squeegee/Trowel application (recommended for first coat)</p> <p>Pour a manageable quantity of Dulux Avista mixture onto the damp, primed concrete surface. Use squeegee or trowel evenly spread the resurfacing compound over the surface.</p> <p>Do not exceed a thickness of 4 mm per coat, as this may lead to shrinkage cracking.</p> <p>Subsequent trowel or spray coats can be applied to achieve desired decorative finish.</p> <p>Spray application</p> <p>Application will require a moisture trap air compressor & hopper gun. Recommended minimum compressor specs: 12 cfm with a 70L tank. Add mix to hopper, ensuring not to overfill - recommend half full.</p> <p>Before applying to surface, spray on separate fibro test board to obtain desired texture. Adjust pressure to vary texture.</p> <p>Spray evenly across the surface, holding the hopper approximately 600mm from the ground.</p> <p>Once area has been completely covered, allow to dry sufficiently to walk on.</p> <p>Minimum 2 coats at total of minimum 3mm thickness required to achieve sufficient wear factor.</p> <p>The Dulux Avista Resurfacing System must be sealed once the surface is completely dry. Options for sealing include:</p> <ul style="list-style-type: none"> - Dulux Avista General Purpose Sealer (S/G or matt) - Dulux Avista Extended Wear Sealer - Dulux Avista 2 Pack Urethane - Dulux Avista Polyaspartic Sealer 	
SDS Number	SDS Link View SDS Link

3rd Coat — Dulux Avista Concrete Sealer 2 Pack Urethane Gloss			
Coat Type 3rd Coat	Datasheet AUAV00014 Dulux Avista Concrete Sealer 2 Pack Urethane Gloss		
Read the full Datasheet details at Dulux Avista Concrete Sealer 2 Pack Urethane Gloss			
Components 2	Mixing Ratio 7:1		
Pot Life 2-3 hours	Yield 10L		
Application Methods			
 Airless Spray  Brush  Roller			
	Min	Max	Recommended
Theoretical Spread Rate (m ² /L)	<input type="text" value="3"/>	<input type="text" value="10"/>	<input type="text"/>
Recoat Time **	<input type="text" value="3 hours"/>	<input type="text" value="24 hours"/>	<input type="text" value="6 hours"/>
V.O.C. Level 588g/litre	Meets GBCA V.O.C. Requirements? No		
<p>Coating Application Details</p> <p>Mixing Instructions</p> <p>Mix 8.75L Part A and 1.25L Part B to make 10L kit.</p> <p>Mix product with a paint stirrer until thoroughly mixed (approx. 1min).</p>			

If tinting, combine 1 x 1L of Dulux Avista Sealer Tint per 10L kit. Apply tint after Parts A & B have been combined & mixed. Mix again until colour is even.

Note: It is recommended to use a separate, larger container when tinting, to ensure sufficient room for mixing.

Application Instructions

For smooth concrete surfaces, the first coat must be diluted to penetrate into the substrate and provide better wetting. Dilution can be up to 20% with Dulux Avista Solvent. Diluted sealer must be used immediately. Do not store or return to original sealer.

Note: Dilution not required when using 2 Pack Urethane as a top coat over flakes or epoxies.

If there are some doubts about application and appearance, test a small area first.

Apply Dulux Avista 2 Pack Urethane by a suitable paint brush or roller or airless spray.

For roller application, a good quality 6mm-22mm nap, solvent resistant synthetic roller should be used. Nap length will vary depending on the substrate. For smooth surfaces, use a 6mm-10mm roller. For use over flake flooring, resurfacing or coarse concrete, a longer nap is recommended.

For airless spray application, 20% Dulux Avista Solvent should be added.

A second should be applied within 6 - 24 hours (18 hours in summer), dependent on conditions prevailing. Adhesion between coats can be difficult to obtain if the product is allowed to fully cure. If greater than 24 hours has elapsed since the previous coat, the surface requiring abrading and solvent wiping to provide extra key before additional coats are applied.

Note: Areas finished with Dulux Avista 2 Pack Urethane can become slippery when wet. For increased slip resistance, Dulux Avista Slip Reducing Crushed Glass or Dulux Avista Slip Reducing Additive Powder can be used with this product. Refer to the relevant product TDS for application instructions.

SDS Number PAR000121	SDS Link View SDS Link
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4th Coat — Dulux Avista Concrete Sealer 2 Pack Urethane Gloss




Coat Type 4th Coat	Datasheet AUAV00014 Dulux Avista Concrete Sealer 2 Pack Urethane Gloss
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Read the full Datasheet details at [Dulux Avista Concrete Sealer 2 Pack Urethane Gloss](#)

Components 2	Mixing Ratio 7:1
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Pot Life 2-3 hours	Yield 10L
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Application Methods

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

	Min	Max	Recommended
Theoretical Spread Rate (m ² /L)	3	10	
Recoat Time **	3 hours	24 hours	6 hours

V.O.C. Level 588g/litre	Meets GBCA V.O.C. Requirements? No
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Coating Application Details

Mixing Instructions
Mix 8.75L Part A and 1.25L Part B to make 10L kit.
Mix product with a paint stirrer until thoroughly mixed (approx. 1min).
If tinting, combine 1 x 1L of Dulux Avista Sealer Tint per 10L kit. Apply tint after Parts A & B have been combined & mixed. Mix again until colour is even.
Note: It is recommended to use a separate, larger container when tinting, to ensure sufficient room for mixing.

Application Instructions
For smooth concrete surfaces, the first coat must be diluted to penetrate into the substrate and provide better wetting. Dilution can be up to 20% with Dulux Avista Solvent. Diluted sealer must be used immediately. Do not store or return to original sealer.
Note: Dilution not required when using 2 Pack Urethane as a top coat over flakes or epoxies.
If there are some doubts about application and appearance, test a small area first.
Apply Dulux Avista 2 Pack Urethane by a suitable paint brush or roller or airless spray.

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SDS Number PAR000121	SDS Link View SDS Link
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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 23°C and 50% relative humidity, these may vary under different conditions.

Do not apply in temperatures below 10°C as curing time is significantly delayed. It is not advisable to apply onto very hot surfaces (greater than 40°C) as this can affect cure. Therefore, under very hot conditions it is advisable to shade the application area.

Avista Resurfacing System is a decorative coating and cracks in the concrete base may reflect through the surface.

Disclaimer

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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.

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.