AUAV00071 Dulux Avista Polyaspartic Two Pack High Gloss / over Dulux Avista Resurfacing System on Previously Coated Concrete floors [Exterior]

Scope of Works

Avista Resurfacing Compound system for use over a concrete substrate.

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
Inspect to determine the degree of deterioration of existing coatings. Identification of the existing coating is also very helpful in determining the system procedure Check coating adhesion using the cross-hatch test.as per AS 1580.408.2 : Paints and related materials - Methods of test - Adhesion (cross-cut)

CLEAN SURFACE
Clean surface to remove all dirt, dust, grease, oil, efflorescence, laitance, powdery surfaces and all other surface contaminants by high pressure water cleaning.

REPAIR SURFACE IMPERFECTIONS
Grind out cracks and fill with AVS EPOXY CONCRETE CRACK REPAIR 1.5L-FC378187-1.5L
Feather off areas where previous resurfacing product has lifted. .Do NOT fill expansion joints.

PRIME
Spot prime bare concrete areas with AVS RESURFACING PRIMER 10L-FD578046-10L. (Can be coated immediately with Resurfacing product).
Them trowel resurfacing product to uniform film build.

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 Polyaspartic Two Pack High Gloss

Coating System

Primer — Dulux Avista Resurfacing Primer

Coat Type	Datasheet
Primer	**AUAV00007 Dulux Avista Resurfacing Primer**

Read the full Datasheet details at Dulux Avista Resurfacing Primer

Components
1

Application Methods
Roller **Floor Squeegee** **Broom**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)			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 40m² 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	Datasheet
1st Coat	**AUAV00006 Dulux Avista Resurfacing Base Compound**

Read the full Datasheet details at Dulux Avista Resurfacing Base Compound

Components
3

Pot Life	Yield
appox. 30 minutes, depending on ambient conditions	**12.5L**

Application Methods
Floor Squeegee **Broom** **Trowel** **Hopper Gun**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	15	30	
Recoat Time **	40	NA	

V.O.C. Level	Meets GBCA V.O.C. Requirements?
11 grams per litre	**Not Applicable**

Coating Application Details
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.

First coat should always be applied to a damp, primed surfaces. Applicable to all trowel or squeegee application methods.

Squeegee/Trowel application (recommended for first coat)
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.

Spray application
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.

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:
- 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	Datasheet
2nd Coat	**AUAV00006 Dulux Avista Resurfacing Base Compound**

Read the full Datasheet details at Dulux Avista Resurfacing Base Compound

Components
3

Pot Life	Yield
appox. 30 minutes, depending on ambient conditions	**12.5L**

Application Methods

Floor Squeegee **Broom** **Trowel** **Hopper Gun**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	15	30	
Recoat Time **	40	NA	

V.O.C. Level	Meets GBCA V.O.C. Requirements?
11 grams per litre	**Not Applicable**

Coating Application Details
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.
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Do not exceed a thickness of 4 mm per coat, as this may lead to shrinkage cracking.
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Spray evenly across the surface, holding the hopper approximately 600mm from the ground.
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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:
- 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 Polyaspartic Two Pack High Gloss

Coat Type	Datasheet
3rd Coat	**AUAV00024 Dulux Avista Polyaspartic Two Pack High Gloss**

Read the full Datasheet details at Dulux Avista Polyaspartic Two Pack High Gloss

Components	Mixing Ratio
2	**1:1 (by volume)**

Pot Life
40 minutes* (after mixing) @ 20 - 25°C

Application Methods

Brush **Roller** **Floor Squeegee**

Flooring squeegee

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	**12.5**	**5**	
Wet Film Per Coat (microns)	**80**	**200**	
Dry Film Per Coat (microns)	**80**	**200**	
Recoat Time **	**90 minutes**	**18 hours**	

V.O.C. Level	Meets GBCA V.O.C. Requirements?
20g / litre	**Yes** Total Volatile Organic Content (TVOC) values are calculated in accordance to the stated methodology within Green Star Technical Manuals. The TVOC content is theoretically calculated as the sum total of the known VOC values of the product's raw material components. These materials include the base paint plus additional low VOC tinter required for non-factory packaged colours.

Coating Application Details

Mixing

Stir the Dulux Avista Polyaspartic Part B prior to using. Combine equal parts by volume of Dulux Avista Polyaspartic Part A and Part B and mix thoroughly in an independent container using a low speed heavy duty cordless drill and suitable spiral mixer for 1 to 1½ minutes. Mix only enough product (typically 5 - 10 litres. For Resurfacing Dilute to 10 - 20% of Dulux Avista solvent to help with penetration and aid with application. This can be applied within the working life, depending on the labour available).

Important: Once mixed the product should be poured out in ribbons onto the floor and spread out immediately using a squeegee. Holding the product in the original mixing can will lead to an exothermic reaction which will significantly reduce the working life of the material

Application

1st Coat

Following the required preparation, apply Dulux Avista Polyaspartic using 230mm or 270mm unifibre roller sleeves. Note: a squeegee may be used prior to rolling to help spread material. During the application, the roller sleeves will have to be changed as they will become tacky. After spreading out the material it is important to back roll the floor. Back rolling is done to ensure even application and will help with breaking any bubbles that may have formed from pinholes. On average a roller cover will last approximately 10 min before a replacement is required.

2nd Coat (optional)

After the first coat has become tack-free, a second coat can be applied if required. This will be after approximately 1 hour but no longer than 18 hours after application of the first coat.

At temperatures of 20 - 30°C foot traffic may be permitted after 1 to 2 hours, and light vehicular traffic after 24 hours; however, in cold weather a longer period before use may be required.

If recoating after 18 hours, the surface will require a light abrade using a 100 grit sandpaper and a solvent wipe to ensure the surface is clean for better adhesion.

Overcoating Epoxy and Flake Flooring

Dulux Avista Polyaspartic can be applied over Dulux Avista epoxy and flake flooring systems. Overcoating with Dulux Avista Polyaspartic should occur within 48 hours of the application of the base epoxy coating. Refer to Dulux Avista Decorative Flakes or Natural Stone Look Flakes Technical Data Sheet (TDS) for detailed flake application process.

SDS Number	SDS Link **View SDS Link**

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.

Comments

Comments

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

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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 4361 Parts 1 and 2 and Worksafe Australia guidelines.