AUAV00050 Dulux Avista Concrete Sealer 2 Pack Urethane Gloss on Aged Uncoated Substrate Concrete walls - Off Form, Tilt Up, Pre Cast [Exterior]

Scope of Works

Avista 2 Pack Urethane is a clear two pack sealer with good wear and chemical resistance. It can also be coloured using the Avista Sealer tint range.

Substrate and Substrate Preparation

Substrate Notes

Concrete is a mixture of Portland cement, fine and coarse mineral aggregates, water and admixtures. Off-form concrete is produced by pouring the wet concrete mix into formwork in which reinforcing steel had been laid. The formwork 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.

Off-form concrete can be produced on site (also known as cast in situ or tilt-up concrete), or off-site (also known as precast concrete).

Precast concrete panels are cast on horizontal formwork, then cured in racks before being delivered to site. Transportation, lifting, and placing precast concrete into position limits panel size.

Substrate Preparation Notes

Assess suitability

Off Form Concrete should be installed as per AS3610 Control of Concrete Surface Formwork (current edition) and AS 3850.2 Tilt-Up Concrete & Pre Cast Elements for use in Buildings (current edition) Examine the surface for the presence of grease, form oils, release agents, mortar splashes, efflorescence or other contaminants.

Check concrete moisture content with a standard moisture meter. Efflorescence is a sign of moisture ingress and must be addressed to ensure concrete moisture content is no greater than 10% before any coating can be applied.

Clean surface

Clean the surface thoroughly by water blasting or detergent cleaning, scrubbing the surface with a stiff bristle broom and a commercial cleaner and hot or cold water followed by a rinse clean with fresh water. Repeat on extremely dirty surfaces until all contaminants are removed. Treat mould or moss with a suitable biocide treatment. Check for grease, form oils, bond breakers, form release agents and other surface contaminants simply by splashing water onto the substrate; if water beads on the surface, then it is contaminated and must be cleaned with a suitable form release agent remover such as Acratex Tiltwash according to instructions.

Repeat until water no longer beads anywhere on the surface. Where doubt exists always refer to the manufacturer of the Release Agent or Bond Breaker on their recommended practice of removal. Ensure that the surface is dry, clean and free from dust.

Repair surface imperfections

Remove embedded steel fragments such as nails, chair legs, tie wires or spacing bars lying on or very close the surface. Clean and coat any remaining visible steel with epoxy mastic to prevent rust stains and premature coating system failure. Fill cracks, blowholes, pinholes and flaws with Acra-Patch Fine or Coarse (depending on size) mixed with 10-20% fresh Portland cement to match the existing surface. Remove shiny surfaces by mechanical abrasion. Prime over any patched sections. Fill structural control or expansion joints with a flexible paintable polyurethane mastic.

Check moisture

Ensure concrete moisture content is less than 10% as measured with a standard moisture meter.

Additional Notes

Wet or steep areas may become slippery, it is recommended that Avista Slip Reducing Powder be added to the final coat to provide wet slip resistance.

Coating System Summary

- 1st Coat — Dulux Avista Concrete Sealer 2 Pack Urethane Gloss
- 2nd Coat — Dulux Avista Concrete Sealer 2 Pack Urethane Gloss

Coating System

1st Coat — Dulux Avista Concrete Sealer 2 Pack Urethane Gloss

Coat Type	Datasheet
1st Coat	**AUAV00014 Dulux Avista Concrete Sealer 2 Pack Urethane Gloss**

Read the full Datasheet details at https://duspecplus.com.au/pdf/datasheet/dulux-avista-concrete-sealer-2-pack-urethane-gloss/d6b12bdf-01be-4be8-ad59-80d60b18991d

Components
2

Pot Life
6 hours

Application Methods

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

	Min	Max	Recommended
Theoretical Spread Rate *	3	10	
Recoat Time **	6 hours	18 hours	

V.O.C. Level	Meets GBCA V.O.C. Requirements?
588g/litre	**Not Applicable**

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 for minimum 3 minutes.

Application 1st Coat
For non porous surfaces the first coat must be diluted to penetrate into the substrate and provide better wetting. Dilution can be up to 20% with Avista Solvent. Diluted sealer must be used immediately. Do not store or return to original sealer.
If there are some doubts about application and appearance, test a small area first.
Apply Avista 2 Pack Urethane by either a suitable paint brush, 100% mohair 4mm pile nap roller or airless spray.
For spray application, 10% Avista Solvent should be added.

Application 2nd coat
Second coat should be applied within 6 -18 hours dependent on conditions prevailing. If too much time is allowed for cure, adhesion can be difficu lt to obtain on subsequent coats. If too much time has elapsed then the first coat will have to be abraded and solvent wiped to provide extra key b efore the second or third coats are applied. Avista Slip Reducing Additive may be added to the final coat, particularly if the area gets wet. Refer to Slip Resistant Additive TDS.

Tinting
If tinting is required, add 1L of Avista Concrete Sealer Colour Tint per 10L kit. Add the tint after the Parts A and B have been mixed together and t hen mix for another 2 minutes.

SDS Link
https://go.lupinsys.com/duluxgroup/harms/public/materials/a9005bffb9abde8fafd4f7bc536050d7-published/individual

2nd Coat — Dulux Avista Concrete Sealer 2 Pack Urethane Gloss

Coat Type	Datasheet
2nd Coat	**AUAV00014 Dulux Avista Concrete Sealer 2 Pack Urethane Gloss**

Read the full Datasheet details at https://duspecplus.com.au/pdf/datasheet/dulux-avista-concrete-sealer-2-pack-urethane-gloss/d6b12bdf-01be-4be8-ad59-80d60b18991d

Components
2

Pot Life
6 hours

Application Methods

Airless Spray | Brush | Roller

	Min	Max	Recommended
Theoretical Spread Rate *	3	10	
Recoat Time **	6 hours	18 hours	

V.O.C. Level	Meets GBCA V.O.C. Requirements?
588g/litre	Not Applicable

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 for minimum 3 minutes.

Application 1st Coat

For non porous surfaces the first coat must be diluted to penetrate into the substrate and provide better wetting. Dilution can be up to 20% with Avista Solvent. Diluted sealer must be used immediately. Do not store or return to original sealer.
If there are some doubts about application and appearance, test a small area first.
Apply Avista 2 Pack Urethane by either a suitable paint brush, 100% mohair 4mm pile nap roller or airless spray.
For spray application, 10% Avista Solvent should be added.

Application 2nd coat

Second coat should be applied within 6 -18 hours dependent on conditions prevailing. If too much time is allowed for cure, adhesion can be difficu lt to obtain on subsequent coats. If too much time has elapsed then the first coat will have to be abraded and solvent wiped to provide extra key b efore the second or third coats are applied. Avista Slip Reducing Additive may be added to the final coat, particularly if the area gets wet. Refer to Slip Resistant Additive TDS.

Tinting

If tinting is required, add 1L of Avista Concrete Sealer Colour Tint per 10L kit. Add the tint after the Parts A and B have been mixed together and t hen mix for another 2 minutes.

Additional Coating Details

After sealing it is recommended that the sealed surface be protected from:Rain/water/sprinkler systems for minimum 6 hoursFoot traffic for a minimum of 48 hoursVehicle traffic for a minimum of 72 hoursThe time depends on weather conditions and coating thickness, therefore, check suitability before allowing traffic.

SDS Link

https://go.lupinsys.com/duluxgroup/harms/public/materials/a9005bffb9abde8fafd4f7bc536050d7-published/individual

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.
Cannot be applied over solvent based acrylic sealers.
Surface must be abraded for second coat if over 18 hours between coats.
When surface requires resealing, the surface will be need to be abraded before sealing.

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.