

AUAV00045 Dulux Avista Concrete Sealer 2 Pack Urethane Gloss on New Concrete walls - Off Form, Tilt Up, Pre Cast [Interior / Exterior]

Scope of Works

Avista 2 Pack Urethane is a clear two pack sealer with good wear and chemical resistance.

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).

Pre-cast 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

PCO018 - OFF FORM, TILT UP, PRECAST
ASSESS SUITABILITY

Concrete substrates need to be fully cured for a minimum of 28 days before coating as per AS 2311 Painting of Buildings (Current Edition). 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)

REMOVE CONTAMINANTS

Remove grease, form oils and release agents. Treat mould or moss with a suitable mould treatment. Remove shiny surfaces by mechanical abrasion. Embedded steel fragments such as nails, chair legs, tie wires or spacing bars lying on or very close to the surface should be removed (and the surface made flush with AcraPatch Coarse or similar) or cleaned and coated with epoxy mastic to prevent rust stains and premature coating system failure.

CLEAN

Clean the surface thoroughly by water blasting or detergent cleaning, where a commercial cleaner is added to hot or cold water and the surface is washed/scrubbed thoroughly with a stiff bristle broom and then rinsed clean with fresh water. This may need to be repeated on extremely dirty surfaces to ensure removal. Ensure that the surface is dry, clean and free from dust. Check for the presence of Release Agents and Bond Breakers by simply splashing water onto the substrate, if water beads on the surface then total removal is mandatory. Where doubt exists always refer to the manufacturer of the Release Agent or Bond Breaker on their recommended practice of removal. The use of proprietary Tiltwash is recommended for the removal of Bond Breakers and Release Agents, a water test should be exercised after the use of TiltWash to check for any residual presence of Bond Breakers and Release agents.

REPAIR SURFACE IMPERFECTIONS

Cracks and flaws should be filled with a suitable patching compound with the addition of 10-20% fresh Portland cement to match the existing surface. Blowholes and pinholes present can be filled with Acra-Patch 500/1 fine or coarse 500/2 depending on size. Prime over any patched sections. Structural control or expansion joints should be filled with flexible paintable polyurethane mastic.

IMPORTANT when applying Porter's Mineral Stain and Mineral Paint it is recommended that you use Emer Skim or Emer Patch to make flush.

REPAIR SURFACE IMPERFECTIONS BEFORE USING A MINERAL SILICATE STAIN:

Cracks smaller than 6mm but larger than 0.5 mm, should be cut to a depth of 6mm with a crack chasing blade, cleaned, and filled with Renderoc H.B until almost flush with the surface. When dry, apply a final skim of the Renderoc F.C patching compound.

When dry, level with a 120 grit Carborundum block to flush. Allow curing for a minimum of 7 days before applying Mineral Stain.

Note: As Mineral Stain is non-bridging or film-forming, hairline cracking may still be evident even after application.

Structural control or expansion joints should be filled with flexible paintable polyurethane mastic after application of Mineral Silicate Stain, as the stain will not bridge over flexible membranes or sealants.

CHECK MOISTURE

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

The coastal area is considered a marine environment and as such salt potentially can shorten the life of the coating systems. Care needs to be taken to wash down all areas twice. Once to remove surface contaminants, and raise salts to the surface and then secondly to remove these salts.

Due to the locality, Weather conditions and lag time between application of the coating system it may require the need to wash again, between coats.

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



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

V.O.C. Level 588g/litre	Meets GBCA V.O.C. Requirements? Not Applicable
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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 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 difficult 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 before 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 then 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 2nd Coat	Datasheet AUAV00014 Dulux Avista Concrete Sealer 2 Pack Urethane Gloss
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Components
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Additional Coating Details

After sealing it is recommended that the sealed surface be protected from: Rain/water/sprinkler systems for minimum 6 hours
Foot traffic for a minimum of 48 hours
Vehicle traffic for a minimum of 72 hours
The 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 need to be abraded before sealing.

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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 4361 Parts 1 and 2 and Worksafe Australia guidelines.