Dulux®

AVISTA®

SEALING GUIDE

Designed to bring surface to life

SEALING PROCESS

BARE CONCRETE	**STEP 1** Prep, Clean & Etch	**STEP 2** Apply Primer	**STEP 3** Apply Sealer (Add slip additive if required)	
SEALED CONCRETE	**STEP 1** Test your surface	**STEP 2** Prep & Clean	**STEP 3** Apply Primer	**STEP 4** Apply Sealer (Add slip additive if required)

Important note: Sealers are not recommended for use on steep or smooth concrete surfaces as they may cause the surface to become slippery, particularly when wet. For more information refer to the Technical Data Sheet (TDS) at **www.duluxavista.com.au**

UNSEALED CONCRETE

New Concrete Freshly Poured (same day)

Plain Concrete or Coloured Through

STEP 1 Pre-seal

Presealer can be used for up to 24 hours after the concrete is poured.

Note: Unless the concrete was presealed (plain concrete) and sealed (exposed aggregate) within 24 hours, leave it to cure. Ensure that the freshly poured concrete surface is sufficiently dry and firm enough to walk on without marking and there isn't any free water present. If the concrete is more than 14 to 28 days old (depending on weather conditions), do an acid wash first before sealing.

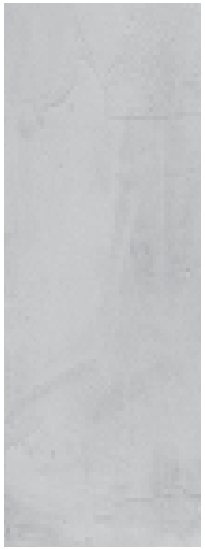
Exposed Aggregate

STEP 1 Seal

Exposed aggregate sealer can be used for upto 24 hours after the concrete has been revealed and no surface water is present.

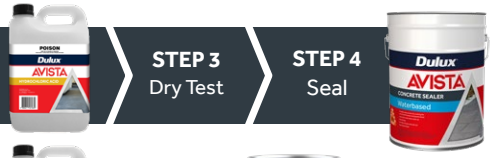
Fully cured unsealed

Plain concrete



Waterbased Clear Option

STEP 1 Clean → **STEP 2** Acid Wash → **STEP 3** Dry Test → **STEP 4** Seal



Waterbased Tintable Option

STEP 1 Clean → **STEP 2** Acid Wash → **STEP 3** Prime → **STEP 4** Seal

Solvent based Clear Option

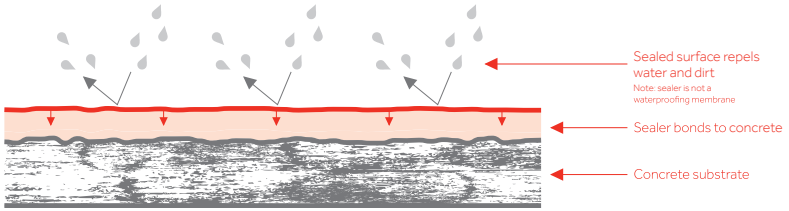
STEP 1 Clean → **STEP 2** Acid Wash → **STEP 3** Dry Test → **STEP 4** Seal

Solvent based Tintable Option

STEP 1 Clean → **STEP 2** Acid Wash → **STEP 3** Dry Test → **STEP 4** Seal

WHY SEAL CONCRETE

Concrete sealers protect your concrete surfaces and produce an attractive finish that is easier to clean and maintain. The sealer works by blocking the pores of the concrete and providing a protective layer that helps stop dirt becoming ingrained and reduces colour fading.



However, sealers will wear over time, so keep your concrete surfaces looking great by resealing approximately every 2 years. Dulux® Avista® has a range of concrete sealers to meet your needs. This Sealing Guide provides you with the application process to help you achieve the best results.

Exposed Aggregate Surface

STEP 1 Clean → STEP 2 Acid Wash → STEP 3 Dry Test → STEP 4 Seal

PREVIOUSLY SEALED CONCRETE

Previous Sealer Type: Clear

Plain Concrete

Waterbased Tintable Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Prime → STEP 5 Seal

Waterbased Clear Option

STEP 1 Cross Hatch Test → STEP 2 Clean → STEP 3 Dry Test → STEP 4 Seal

Solvent Based Tintable Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Dry Test → STEP 5 Solvent Wash → STEP 6 Seal

Solvent based Clear Option

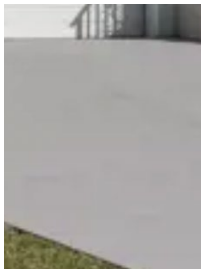
STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Dry Test → STEP 5 Solvent Wash → STEP 6 Seal

Exposed Aggregate Surface

STEP 1 Clean → STEP 2 Dry Test → STEP 3 Solvent Wash → STEP 4 Seal

Previous Sealer Type: Waterbased Colour

Coloured Concrete



Waterbased Tintable Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Prime → STEP 5 Seal

Solvent Based Tintable Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Dry Test → STEP 5 Seal

Previous Sealer Type: Solvent based Colour

Coloured Concrete

Waterbased Tintable Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Prime → STEP 5 Seal

Waterbased Clear Option

STEP 1 Cross Hatch Test → STEP 2 Clean → STEP 3 Dry Test → STEP 5 Seal

Solvent based Tintable Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Dry Test → STEP 5 Seal

Solvent based Clear Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Dry Test → STEP 5 Seal

PREVIOUSLY SEALED STAMPED / STENCILLED SURFACE

Previous Sealer Type: Solvent based Clear or Colour, Waterbased Clear or Colour

Stamped

Waterbased Tintable Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Prime → STEP 5 Seal

Solvent based Clear Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Dry Test → STEP 5 Solvent Wash* → STEP 6 Seal

Solvent wash only if clear sealer previously used

Stenciled

Waterbased Tintable Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Prime → STEP 5 Seal

Solvent based Clear Option

STEP 1 Xylene Test → STEP 2 Cross Hatch Test → STEP 3 Clean → STEP 4 Dry Test → STEP 5 Solvent Wash* → STEP 6 Seal

Solvent wash only if clear sealer previously used

If the Surface has been sealed multiple times, it will need to be assessed if it is suitable for further coating, or requires removal by chemical stripping, soda blasting or grinding.

* If clear sealer was used previously

PREPARATION

Before cleaning the surface, check for cracks in the concrete. Concrete can develop fine, surface-level cracks that are generally not a major concern. These types of cracks can be assessed and filled with epoxy to prevent further deterioration. Concrete cracks that are deep or have caused the concrete to become broken are more problematic and require closer attention. These types of significant cracks may indicate structural issues and should be professionally evaluated.

CLEANING PROCESS

Ensure the surface is clean and free of grease, oil or any contaminants. A stiff broom and general-purpose cleaner are recommended. Pressure clean surface at a minimum of 2000 psi and allow to dry. When using Waterbased Tintable option ensure the surface is damp but no pooled water is present on the surface before applying the primer. When using solvent based sealers ensure the surface is dry before sealing, using a moisture meter (moisture content must be below 10%) or by conducting a Dry Test.

ACID WASH PROCESS

Acid etch the surface using hydrochloric acid (dilute approximately 1 part acid with 20 parts water). Apply diluted acid to a slightly damp surface using a large head watering can, applying in a criss cross motion (approx 5-10m^2 sections). Wash down with water then pressure clean immediately at a minimum of 2000 psi to clean and remove all remnants of acid (do not allow acid to dry on the surface). Ensure the surface is dry before sealing using a moisture meter (moisture content must be below 10%) or by conducting a Dry Test. **Note:** Do not use on previously sealed surface.

SOLVENT WASH PROCESS

If the old Sealer has been properly cleaned and passes the Cross-hatch test, apply Dulux Avista Solvent to the area to be resealed using a roller and roller tray. This will help reactivate the existing sealer and create a key for the sealer to bond to the surface. **Note:** If resealing a resurfaced area, DO NOT apply too much solvent as it may soften the resurfacing product. Solvent wash can be used only when clear sealer was previously used. Please note Dulux Avista Solvent is not a sealer stripper.

PRIMING PROCESS

Primer:

Pour Dulux Avista Water based Bare Concrete Primer into a roller tray and apply 2 even coats onto the surface using a good quality roller. Allow 1 hour between coats. In case of the previously sealed surface, apply 1 coat of Dulux Avista Sealed Surface Primer using a 12-15 mm nap roller. Allow to dry.

Pre-seal:

Stir Dulux Avista Pre-Sealer well before pouring into a roller tray. Roll evenly onto the surface using a good quality lambswool roller. Allow to dry for 2 hours. The surface must then be left for a minimum of 30 days for the concrete to cure before proceeding to the next step.

SLOPED SURFACES

Surfaces sealed multiple times can create a slip hazard. Due to slip risk, do not use Dulux Avista products on gradients greater than 1:8 or angles steeper than 7°. A slope greater than 1:8 needs to be assessed and coated professionally. Download a suitable app to discern the angle of your sloped surface.

SEALING PROCESS

For best results stir a suitable Dulux Avista top coat sealer well before pouring it into a roller tray. Roll evenly onto the surface using a good-quality 14 - 20mm nap roller. Apply the sealer evenly doing 1 square metre at a time. Ensure sealer is not applied too thickly and no pooling occurs. It is also important to lay off your roller. This is done by making sure the frame of the roller is kept on the one side and your final stroke should be away from you and then the roller lifted up off the surface. This reduces the roller marks being left behind when you pull the roller towards you.

For Dulux Avista Tintable Base, add 1L of Dulux Avista Colour Tint to 19L Dulux Avista Tintable Base and mix thoroughly for 3-4 minutes using a hand paddle. The tinted sealer must be mixed regularly during application to ensure colour consistency.

Note:

1. Allow to dry for 2 hours and then apply a second coat of sealer.
2. Sealing concrete will darken the colour of the concrete surface.
3. Do not apply sealer at temperatures below 8°C or above 35°C.
4. Do not seal if high winds or rain are likely.

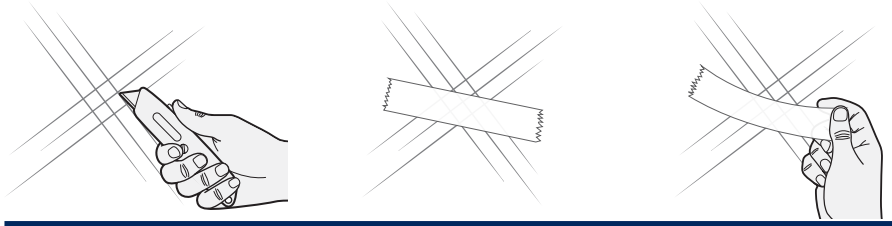
SLIP RESISTANCE

To increase slip resistance, use the appropriate slip reducing additive available in the Dulux Avista range during the application process.

Picture credit: Conker Concreting

Cross-hatch Test

This simple test should be used to ascertain whether the existing sealer is suitable to be resealed over.



STEP 1	STEP 2	STEP 3
Use a sharp blade to create a light 'cross-hatch' incision through the sealer.	Place a piece of self adhesive tape (such as clear packing tape) over the incision.	Press firmly for maximum adhesion and remove sharply. Repeat with fresh tape several times.

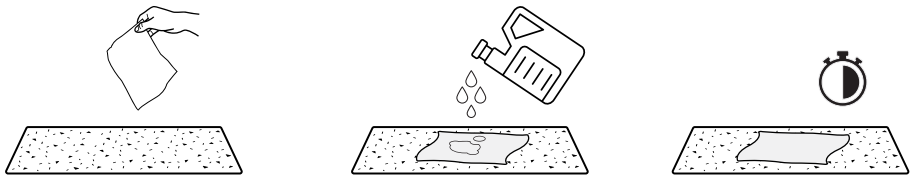
If sealer is present on the tape, it is advised the sealer be completely stripped from surface. Seek professional contractors should stripping be required.

If there is no sign of sealer adhering to the tape or delaminating from the surface, this would indicate that the bond of the existing sealer is sufficient for resealing.

1 HOUR Dry Test

STEP 1	STEP 2
Place a piece of black plastic or cling wrap over a small area (400mm x 400mm), tape the edges and leave for 1 hour.	Remove plastic. If there is no moisture on either the plastic or the concrete, the concrete is sufficiently dry for sealing.

Xylene Test



STEP 1	STEP 2	STEP 3
Place a 10cm^2 piece of cotton cloth on a sealed surface.	Pour Xylene on the surface to saturate the surface. Cover with a sheet of cling film.	Wait for 30 minutes. Remove the cloth and observe the surface.

If the coating dissolves, can be wiped away, or softens and becomes sticky, then the surface has an acrylic resin coating. If the surface is acrylic, follow the next steps based on your chosen sealing option. If the coating wrinkles, then it is likely an alkyd, or if there is no reaction, then it is likely to be an epoxy or polyurethane. In these instances seek technical advice or contact a professional applicator.

FAQ

How do I know when my pavement needs to be resealed?

If your pavement appears faded and dull but darkens when wet, it is time to reseal. Generally, surfaces need to be resealed every 2 years, if using solvent based sealer and 2-3 years if using the new waterbased sealer system.

What affects the life expectancy of a sealer?

The type and frequency of traffic, along with the weather conditions all play a part in how long the sealer may last. Traffic over excess dirt, friction (e.g. from tyres), and other excessive wear and tear (e.g. power steering or heavy traffic) may reduce the life of the sealer. Constant UV exposure may also reduce the life of the sealer. Regular maintenance can help extend the life of the sealer.

How long will the sealer take to cure?

Curing times will depend on the ambient conditions and can vary from job to job. However, it is recommended that the sealed surface does not have foot traffic for at least 2 hours and vehicle traffic for at least 5 days.

How many times can I reseal my driveway?

If the concrete has been sealed 3-4 times previously, we recommend you get your surface assessed to find its suitablility for chemical removal or if the concrete needs to be stripped completely.

What is the coverage rate of sealer?

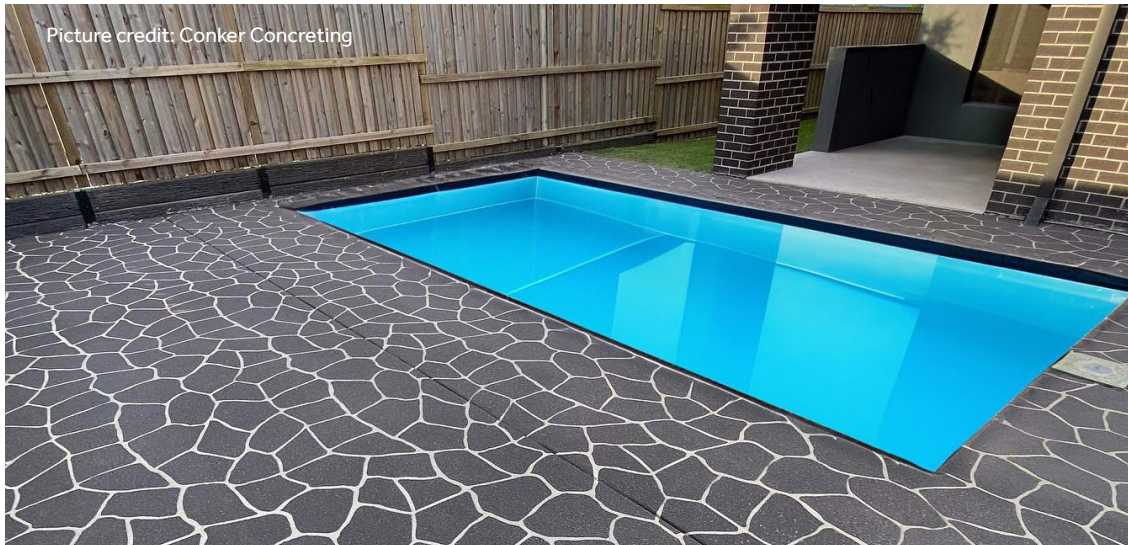
Normal coverage is approx 3-6m^2 per litre for solvent based and 4-8m^2 per litre for waterbased sealer depending on the porosity of the concrete.

Can I reseal if there is flaking/peeling sealer on the surface?

No you can't reseal this surface. The sealer will need to be completely stripped from the surface which should be done by a professional contractor.

What should I do if bubbles appear on the surface when I am applying the sealer?

If you see the bubbles as you are applying the sealer, dampen another roller with Dulux Avista Solvent and lightly roll over any bubbles. Bubbling can occur if the surface is too hot when applying the sealer, or if moisture is present in the concrete.



Product Index

Process	Product	
Pre-seal (New Concrete Freshly Poured)	Dulux Avista Concrete Sealer Pre-Sealer	
Acid Wash	Dulux Avista Hydrochloric Acid	
Prime (Fully cured unsealed for plain concrete)	Dulux Avista Bare Concrete Primer	
Prime (Previously sealed with clear or coloured concrete)	Dulux Avista Sealed Surface Primer	
Seal (Waterbased clear)	Dulux Avista Waterbased Concrete Sealer	
Seal (Solvent based clear)	Dulux Avista General Purpose Concrete Sealer or Dulux Avista Extended Wear Concrete Sealer	
Seal (Waterbased coloured)	Dulux Avista Waterbased Tintable Base	
Seal (Solvent based coloured)	Dulux Avista Concrete Sealer Tintable Base + Dulux Avista Concrete Sealer Tints or Dulux Avista Coloured Concrete Sealer	
Seal (Exposed Aggregate)	Dulux Avista Exposed Aggregate Concrete Sealer	
Solvent Wash	Dulux Avista Solvent	

Dulux®

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Australia

Call our Customer Service Team on 1800 801 108 to get more information on *Dulux Avista* products or to find a contractor in your area.

www.duluxavista.com.au

New Zealand

Call our Customer Service Team on 0800 657 156 to get more information.

www.duluxavista.co.nz

Dulux® AVISTA

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The data provided in this brochure is correct at the time of publication, however it is the responsibility of those using this information to check that it is current prior to using sealing products. This guide should be read in conjunction with the product Technical Data Sheet (TDS).