Technical Data Sheet

Dulux Avista Concrete Sealer Tintable Base

Tintable, durable, semi-gloss solvent based concrete sealer

Description

Dulux Avista Concrete Sealer Tintable Base is to be mixed with Dulux Avista Concrete Sealer Colour Tint to provide a protective coloured coating. It helps protect the substrate from weathering and ingress of dirt and grime.

Uses

Dulux Avista Tintable Base and Tint can be used to re-colour or refresh most exterior concrete surfaces including porous pavers, resurfaced concrete, and plain, stencilled, stamped and coloured concrete. This product is solvent based with high VOC, resulting in fumes during and after application. Please refer to **Safety** section.

NOTE: Sealer can be used with Dulux Avista Slip Reducing Additive to make the surface more slip resistant, particularly in wet areas. However, surfaces greater than a slope of 1:8 (1 high and 8 long) are not recommended for coating, even with the addition of Dulux Avista Slip Reducing Additive. Seek professional advice or call Dulux Avista on 1800 801 108 for recommendations on how to coat surfaces with a slope of greater than 1:8.

Advantages

- Range of colours
- Easy to apply
- No primer required
- Semi-gloss finish

Properties

Solids (PBW)	24.5% ± 1%
UV Light	Very good resistance
Thinning	Not required
Recommended Film Build	Approx. 40-80 microns dry per coat
Coverage Rate	Approx. 3-5m² per litre per coat
VOC Content	689 grams per litre
50 micron dry film cured for 28 days at 25°C before testing with 1 hour soak	
Petrol (Regular unleaded)	Softening and dulling of surface – immediately clean with detergent and when dry treat with Dulux Avista Solvent
Distillate	No visual effect
Engine Oil	No visual effect
Used Engine Oil	No visual effect
Brake fluid (DOT 3)	Softening and slight dulling – immediately clean with detergent and when dry treat with Dulux Avista Solvent
Water	No visual effect
Alkali (10% Sodium Hydroxide)	No visual effect
Acid (10% Sulphuric Acid)	No visual effect
Chlorine as Sodium Hypochlorite 5% (Pool chlorine)	No Visual effect
Methylated Spirits	Softening with white discolouration (allow to dry and treat with Dulux Avista Solvent)
Salt (Sodium Chloride)	No visual effect

Mixing in Colour Tint

- Applicable to Dulux Avista Tintable Base
- Stir Dulux Avista Sealer Colour Tint well before use
- Add 1L tint to 19L Concrete Sealer Tintable Base
- Mix thoroughly with a hand paddle or “potato masher” for 3-4 minutes
- Sealer must be mixed regularly during application to ensure colour consistency
- When applying coloured sealer, a paint tray and solvent resistant lambswool roller must be used

Application Instructions for New Cured and Old Concrete (unsealed)

Preparation

Ensure concrete is sufficiently cured (recommended minimum 30 days).

- Concrete is to be clean and free of grease and oil (If any paint or curing agents are present, grinding is recommended). Stiff broom and general purpose cleaner recommended.
- Pressure clean surface thoroughly at minimum 2000 psi to ensure no residues of cleaning product are left on the surface.
- Acid etch with hydrochloric acid. Dilute 20 parts water to 1 part Dulux Avista Hydrochloric Acid (depending on porosity) to remove any loosely bound cement and laitance. **NOTE:** smooth concrete will require a higher acid content. Maximum strength - 10 parts water to 1 part acid.
- Wet down the area to be treated with water. Leave until there is no standing water then proceed.
- Apply diluted acid to surface using a large head watering can, applying in a criss-cross motion (approximately 5-10m² sections). Acid will start to fizz on the surface once it starts to react with the laitance in the concrete.
- Pressure clean immediately to clean and remove all remnants of acid (do not allow acid to dry on the surface). Pressure clean at minimum 2000 psi.
- Ensure surface is dry before sealing using a moisture meter (sealing over damp concrete will cause whitening). The moisture content must be below 10% prior to sealer application. If no moisture meter is available, refer to Dry Test.

Dulux Avista Concrete Sealer Tintable Base

Sealing

- Pour tinted sealer into a roller tray and roll evenly onto the surface using a good quality lambswool roller.
- Ensure sealer is not applied too thick and no pooling occurs. Avoid excess sealer build up on the edges of the roller. This can lead to roller lines on the surface.
- To obtain a lower slip factor it is advisable to use Dulux Avista Slip Reducing Additive with the sealer for better grip under adverse conditions e.g. wet areas and pool surrounds. See Dulux Avista Slip Reducing Additive TDS for details.

Application Instructions for Sealed Concrete

Testing

Cross Hatch Test is required.

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

1. Use a sharp blade to create a light “cross-hatch” incision through the sealer.
2. Place a piece of self adhesive packaging tape (suggest clear packing tape) over the incision.
3. Press firmly for maximum adhesion and remove sharply.

Repeat with fresh tape several times.

If sealer is present on the tape, it is advised 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.

IMPORTANT NOTE: if the current sealer shows signs of whitening or blooming, regardless of cross hatch test results, the sealer may need to be stripped completely from the surface. Whitening may reoccur if a new coat of sealer is applied over this problem.

Cleaning

- Concrete is to be clean and free of grease and oil. A stiff broom and general purpose cleaner are recommended.
- Pressure clean at a minimum 2000 psi to clean and remove all contaminants. Allow the surface to dry before resealing (sealing over damp concrete will cause whitening). The moisture content must be below 10% prior to sealer application. If no moisture meter is available, refer to Dry Test.

Solvent Treatment

- If the old Sealer has been properly cleaned and passes the cross hatch test then after a required solvent treatment a new coating of Dulux Avista Sealer can be applied. Dulux Avista Solvent is required to reactivate the existing sealer. This will help with the adhesion of the new sealer coat.
- Apply Dulux Avista Solvent to the area being resealed using a roller and roller tray.

  NOTE: If resealing a resurfaced area, DO NOT apply too much solvent as it may soften the resurfacing products.
- Complete solvent treatment of the entire surface.
- Allow the area to dry enough to walk on before proceeding to the sealing stage.

Sealing

- Pour the tinted sealer into a roller tray and roll evenly onto the surface using a good quality lambswool roller.
- Ensure the sealer is not applied too thick and no pooling occurs. Avoid excess sealer build up on the edges of the roller. This can lead to roller lines on the surface.
- To obtain a lower slip factor it is advisable to use the appropriate Slip Reducing Additive with the sealer for better grip under adverse conditions e.g. wet areas and pool surrounds. See Dulux Avista Slip Reducing Additive TDS for details.

Drying time

Allow 2 hours between coats.
Do not apply sealer at temperatures below 8°C or above 35°C.

Curing Time

After sealing it is recommended that the sealed surface be protected from:

- Rain/water/sprinkler systems for minimum 2 hours
- Foot traffic for a minimum of 24 hours
- Vehicle traffic for a minimum of 5 days

Dry Test

- Place a piece of plastic over a small area (450mm X 450mm), tape the edges and leave for 1 hour.
- Remove the plastic, if there is no moisture on either surface, the concrete is sufficiently dry for sealing.
- Alternatively, ensure the surface is dry using a moisture meter. The moisture content must be below 10% prior to sealer application.

Dulux Avista Concrete Sealer Tintable Base

Maintenance

Remove oil, grease and other contaminants immediately with a general purpose cleaner.

Limitations

- Do not seal in high winds or if rain is likely.
- Do not apply over painted surfaces. Paint removal required.
- Application of sealer can lower slip resistance (Dulux Avista Slip Reducing Additive available).
- Not suitable for food preparation areas.
- Not a waterproofing membrane.
- Do not use untinted.
- Not recommended to seal at extreme temperatures below 8°C and above 35°C.

Coverage

1 x 20 litre drum covers approximately 60 to 100m² per coat, depending on the porosity of the concrete.

Storage Conditions

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Refer to SDS.

Cleaning

Clean up with Dulux Avista Solvent.

Safety

Recommended PPE:

- Organic vapour respirator mask
- External covered areas must have adequate natural ventilation due to fumes emitted during and after application
- Solvent resistant gloves
- Safety eye wear
- Appropriate solvent and acid resistant foot wear

Supply

FD278051-19L – DULUX AVISTA SEALER TINTABLE BASE 19L

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Dulux Avista website www.duluxavista.com.au. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In an emergency, contact any Poisons Information Centre (Telephone 131 126 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Dulux Avista does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.