# Technical Data Sheet

# Dulux Avista Concrete Sealer General Purpose Semi-Gloss

## Durable protective, clear, semi-gloss concrete sealer

### Description

Dulux Avista General Purpose Concrete Sealer is a solvent based clear coating that seals and helps protect the substrate from weathering and ingress of dirt and grime.

### Uses

Dulux Avista General Purpose Concrete Sealer can be used on most exterior concrete surfaces including concrete driveways, porous pavers, resurfaced concrete, and 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

- Enhances the natural colour of the surface
- Good marking resistance
- Easy to apply
- No primer required

### 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 25ºC 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 |

## Application Instructions for New Cured and Old Concrete (unsealed)

### Preparation

Ensure concrete is sufficiently cured (14 - 30 days depending on conditions).

- Concrete is to be clean and free of grease, oil, paint or any curing agent. 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 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 the 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.

- Wash down with water then 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 in the coating). The moisture content must be below 10% prior to sealer application. If no moisture meter is available, refer to Dry Test.

### Sealing

- Stir Dulux Avista General Purpose Semi Gloss Concrete Sealer well before pouring into a roller tray.

- Roll evenly onto the surface using a good quality long nap roller (20mm).

- Allow to dry for 2 hours before applying a second coat of sealer.

- To obtain a lower slip factor it is advisable to use Slip Reducing Additive with the sealer for better grip under adverse conditions e.g. wet areas and pool surrounds.

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## 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 the 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 recommended.

- Pressure clean at 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.

**NOTE:** Do not acid wash previously sealed surfaces.

### 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.

## Application Process

Do not apply to concrete if it has a patchy appearance. Ensure sealer is not applied too thick and no pooling occurs.

### Sealing

- Stir Dulux Avista General Purpose Semi Gloss Concrete Sealer well before pouring into a roller tray.

- Roll evenly onto the surface using a good quality long nap roller (20mm).

- Allow to dry for 2 hours before applying a second coat of sealer.

- 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.

### Maintenance

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

**NOTE:** surface will need to be resealed at 18 – 24 months.

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## Limitations

- Do not seal in high winds or if rain is likely.

- Do not apply over painted surfaces. Complete paint removal is required.

- Application of sealer can lower slip resistance (Dulux Avista Slip Reducing Additive available).

- Not suitable for food preparation areas.

- Not a waterproofing membrane.

- Not recommended to seal at extreme temperatures below 8°C and above 35°C.

- Not suitable for tinting.

## 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

FD278050-4L – DULUX AVISTA SEALER GENERAL PURPOSE SEMI GLOSS 4L

FD278050-10L – DULUX AVISTA SEALER GENERAL PURPOSE SEMI GLOSS 10L