

High performance, solvent free polyaspartic floor coating

Description

Dulux Avista Polyaspartic is a two component solvent-free polyaspartic clear gloss coating.

Uses

UV and abrasion resistant top coat for epoxy coatings and flake floor systems or as a stand alone coating over correctly prepared concrete surfaces.

Used in the food and chemical industry, hospitals, schools, kitchens and other high traffic applications and where a fast return to service floor coating is required.

Advantages

- 1 coat system
- Abrasion resistant
- UV resistant
- Chemical resistance
- Solvent free
- Convenient 1:1 mix ratio (by volume)
- Fast cure
- Low VOC

Properties

Solids content:	100%
VOC content:	20g / litre (ASTM D3960)
Mix ratio:	1:1 by volume
Working-life time:	40 minutes* (after mixing) @ 20-25°C
Tack free time:	1.5 hours* @ 25°C, 35% RH, 0.1mm WFT
Foot traffic:	2 to 2.5 hours* @ 25°C, 35% RH, 0.1 mm WFT
Recoat time:	1.5 to 2 hours (min); 18 hours (max) @ 25°C, 35% RH, 0.1mm WFT
Cure time (vehicle traffic):	24 hours* @ 25°C, 35% RH, 0.1mm WFT
Hardness:	95 Shore A (AS1683.15.2) 53 Shore D
Service temperature:	Up to 80°C

Working-life time will be reduced if product is kept in can after mixing. Once mixed the product should be poured out in ribbons onto the floor and rolled out immediately.

*Drying time is temperature, humidity and film thickness dependent. Thicker films will take longer to through-cure. High humidity will shorten cure time.

Application Instructions

Surface preparation

It is essential that Dulux Avista Polyaspartic is applied to sound, clean, dry substrates in order to achieve maximum adhesion between the sealer and substrate. Remove all oil, grease and loose particles.

New concrete floors

Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. Concrete must be cured for at least 28 days.

- If the floor is smooth, grinding is advised. This will maximise adhesion.
- If curing agent has been applied, grinding is necessary.
- Acid treatment is a secondary option. Acid etch with hydrochloric acid. Dilute approx 20 parts water to 1 part acid (depending on porosity) to remove any loosely bound cement and laitence.

NOTE: smooth concrete will require a higher acid content. Maximum strength – 10 parts water to 1 part acid. Pressure clean immediately to clean and remove all remnants of acid (do not allow acid to dry on surface). Pressure clean at minimum 2000 psi (large open areas, example factories and warehouses, required for this preparation). Allow to completely dry, refer to Dry Test.

Dry Test

- Place a piece of plastic over a small area, tape the edges and leave for 1 hour.
- Remove plastic, if there is no moisture on either surface, concrete is sufficiently dry.

Overcoating Epoxy and Flake Flooring

Dulux Avista Polyaspartic can be applied over Dulux Avista epoxy and flake flooring systems. Overcoating with Dulux Avista Polyaspartic should occur within 48 hours of the application of the base epoxy coating. Refer to Dulux Avista Decorative Flakes or Natural Stone Look Flakes Technical Data Sheet (TDS) for detailed flake application process.

Mixing

Stir the Dulux Avista Polyaspartic Part B prior to using. Combine equal parts by volume of Dulux Avista Polyaspartic Part A and Part B and mix thoroughly using a low speed heavy duty electric drill and suitable spiral mixer for 1 to 1½ minutes. Mix only enough product (typically 4 litres) which can be applied within the working life, depending on the labour available.

IMPORTANT: Once mixed the product should be poured out in ribbons onto the floor and spread out immediately using a roller or squeegee.

Holding the product in the original mixing can will lead to an exothermic reaction which will significantly reduce the working life of the material.

Dulux Avista Polyaspartic

Application

1st Coat

After applying the product to the surface in ribbons, a squeegee may be used prior to back rolling to help spread out the material. For back rolling use a 230-270mm microfibre roller to even out.

During the application, roller sleeves may need to be changed if they become too tacky.

After spreading out the material it is important to back roll the floor. Back rolling is done to ensure even application and will help with breaking any bubbles that may have formed from pinholes. On average a roller cover will do approximately 45-60m² before a replacement is required.

2nd Coat (optional)

If a second coat is required, it can be applied after the first coat has become tack-free. This will be after approximately 1 hour but no longer than 18 hours after application of the first coat.

At temperatures of 20-30°C foot traffic may be permitted after 1 to 2 hours, and light vehicular traffic after 24 hours; however, in cold weather a longer period before use may be required.

If recoating after 18 hours, the surface will require a light abrade using a 100 grit sandpaper and a solvent wipe to ensure the surface is clean for better adhesion.

Cleaning

All tools and equipment should be cleaned immediately after use with Dulux Avista Solvent. Hardened material can only be removed mechanically.

Maintenance

The service life of a floor can be considerably extended by good housekeeping practices. Regular cleaning of Dulux Avista Polyaspartic may be carried out using a general purpose cleaner.

Limitations

Contact Dulux Avista if there is any doubt as to whether a proposed application may involve extraordinary conditions which could include:

- Extremely porous or poor quality concrete
- Unusually cold condition during curing (<10°C)
- Elevated surface temperatures (>100°C)
- Severe, or unusual, chemical attack

Dulux Avista Polyaspartic is UV resistant but applying the clear coating over non-UV resistant coatings such as epoxies will not stop the epoxy from fading/dischouring under the clear coating.

Dulux Avista Polyaspartic should not be applied on to surfaces known to suffer from rising damp or having a moisture content reading greater than 4%.

Dulux Avista Polyaspartic should be applied only when the substrate temperature and the ambient temperature is between 10°C and 30°C.

Coverage

Approximately 5 to 12.5m² per litre depending on the porosity of the concrete. For Decorative Flake flooring approximately 5m² per litre; this coverage may be reduced further for Natural Stone Look Flakes (one coat required over flake flooring).

Storage

Dulux Avista Polyaspartic has a shelf life of 12 months when kept in a dry place in the original, unopened packs between 10°C and 30°C.

Supply

FD278058-10L – DULUX AVISTA POLYASPARTIC SEALER PART A 10L
FD278059-10L – DULUX AVISTA POLYASPARTIC SEALER PART B 10L

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.

