

Decorative flooring polymer flake

Description

Avista Decorative Flake is a pigmented polymer flake individually coloured of irregular shape and sizes. Available in a selection of colours.

Uses

Avista Decorative Flake is used in the decorative flake flooring system. For use in various commercial and domestic flooring applications.

Suitable application areas include:

- Garage floors
- Shops
- Warehouses
- Kitchen and laundries
- Offices
- Schools
- Showrooms

Properties

UV Resistance:	Very good
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Limitations

- Combustible.

Coverage

10 - 20m² per 5kg box, depending on coverage

Shelf life

Unlimited if stored as directed.

Storage Conditions

Store in an air tight poly-bag in a dry environment at room temperature to avoid moisture, humidity and product degradation.

Flake Flooring System - Application Instructions

Option 1 - Full Flake system

Approximate 2 day application after preparation.

System overview

- Avista Water Based Epoxy (2 coats)
- Avista Decorative Flakes
- Avista Polyurethane or Avista 2 Pack Urethane

Step 1

Preparation

- Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. **The surface needs to be prepared by either grinding or acid etching.**
- **Grinding:** If the floor is smooth, grinding is advised as this will maximise adhesion. If paint or curing agent has been applied, grinding is necessary.
- **Acid treatment** Acid etch with hydrochloric acid. Dilute approx 10 parts water to 1 part acid (depending on porosity) to remove any loosely bound cement and laitence. Apply acid by using a watering can with a large shower head. Apply evenly over the dry surface. Do an area of approximately 10 m² 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 (Acid etching should be used on large open areas, example factories and warehouses)
- *Note If acid washing a garage floor, hose down the driveway first so the acid will not bleach the driveway surface when washing the garage out.*
- Mask job where necessary.
- Repair all cracks and holes first
- Install coving if required.
- Do not apply over expansion joints

Step 2

Application Avista Water Based Epoxy

Mixing

- Mix A and B in correct proportions (1:1 by volume) in a clean, dry 10 or 20L bucket. Mix thoroughly for 3 minutes with mechanical mixer at medium speed until mix colour is uniform (white).
- Add 1 x 400ml Avista Waterbased Colour Tint per 8L kit. Mix thoroughly until even colour is achieved.
- Pot life, approximately 2-4 hours.

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- *Note Surface can be damp when Water Based Epoxy is applied (as long as no pools of water are on surface).*

Application method

- Apply mixed product using a roller and roller tray.
- Ensure coat is applied evenly.
- Apply 2 coats allowing a minimum of 4 hours between coats, depending on conditions.
- Third coat may be required to ensure solid colour coverage If white colour is required. .

Note: First coat can be diluted up to 10% with water if surface is dry

Step 3

Applying Full Flake

NOTE: for self blending of flake colours, contact Parchem for advice.

- Remove flake from box and place in a suitable clean, dry bucket.
- Avista Water Based Epoxy must have adequate film build for flake to adhere to. Do not allow to dry prior to applying flake. It is suggested to complete this step in manageable sections, by rolling approximately 10m² of Water Based Epoxy and applying flake whilst area is still wet.
- Immediately after applying Avista Water Based Epoxy coating and while coating is tacky, walk out on the job wearing spiked shoes and evenly sprinkle the dry flake over the surface.
- Ensure a full and even coverage.
- Allow Avista Water Based Epoxy to cure (approximately 4-6 hours depending on conditions prevailing).
- Once completely dry, scrape any excess flake from the surface with an aluminium scraper or trowel. This ensures no loose or sharp protruding flake is left on the surface.
- Broom and discard excess flake.
- Vacuum thoroughly.

Step 4

Top Coats - Using Avista Polyurethane or Avista 2 Pack Urethane

First coat

Approximate coverage - 3m² per litre for first coat

- Apply Avista Polyurethane or 2 Pack Urethane by using 100% mohair roller. Ensure even application.

Application subsequent coats

- Two additional coats are required.
- Approximate coverage - 6-10m² per litre.
- Second and third coats should be applied within 6-18

hours of previous coat, 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.
- A slip resistant additive may be added to the final coat, particularly if the area gets wet. Refer to Avista Slip Reducing TDS. Gloss reduction will occur.

Option 2 - Full flake one epoxy coat application*

System overview

- Avista Epoxy tinted as a flake coat
- Avista Decorative Flakes
- Avista Polyurethane or Avista 2 Pack Urethane as a top coat

***This system can only be used when the floor only requires acid washing and a dark base coat colour for flaking is being used.**

If the surface is being prepared through grinding and/or is using a light coloured base coat, the Full Flake system with 2 coats of Waterbased Epoxy (option 1) must be used.

Step 1

Preparation

- Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants.
- **Acid treatment** Acid etch with hydrochloric acid. Dilute approx 10 parts water to 1 part acid (depending on porosity) to remove any loosely bound cement and laitence.

Apply acid by using a watering can with a large shower head. Apply evenly over the dry surface. Do an area of approximately 10 m² 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 (Acid etching should be used on large open areas, example factories and warehouses)

Note If acid washing a garage floor, hose down the driveway first so the acid will not bleach the driveway surface when washing the garage out.

- Mask job where necessary.
- Repair all cracks and holes first
- Install coving if required.
- Do not apply over expansion joints.

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Step 2

Avista Epoxy Tinted Flake Coat

Mixing

- Mix Avista Internal Epoxy Resin Part A and Part B in correct proportions in a clean, dry 20L bucket. Mix thoroughly with mechanical mixer at low speed.
- Add 1 litre of Avista Internal Flooring Colour Tint per 10 litre kit and mix again.
- Transfer contents into separate clean bucket. Ensure no unmixed product remains in the first bucket. Mix again in new bucket (this step ensures no unmixed product will stay soft on the floor)
- Pot life, approximately 25 minutes.

Application

- Apply liberally to the surface with a min 12 mm nap roller and roller tray
- Ensure coat is applied evenly and full colour coverage is achieved.

Helpful hint: Get product out of drum ASAP as the more volume left in drum the quicker product will go off. Top up roller trays regularly or pour on to floor and use the floor as your roller tray if product starts to heat up

CAUTION: After mixing Part A & Part B **DO NOT** re-lid mixed parts, resulting in an exothermic reaction.

Step 3

Applying full flake.

NOTE: for self blending of flake colours, contact Parchem for advice.

- Remove flake from box and place in a suitable clean, dry bucket.
- Immediately after applying Avista Epoxy coating and while it is tacky, walk out on the job wearing spiked shoes and evenly sprinkle the dry flake over the surface.
- Ensure a full and even coverage.
- Keep some flake aside as you may need to walk out and flake areas again as flake settles
- Roll down flake with hardened paint roller, or short nap roller left in plastic covering.
- Allow Avista Epoxy to cure (approximately 10-12 hours depending on conditions prevailing). Once completely dry, scrape any excess flake from the surface with an aluminium scraper or trowel. This ensures no loose or sharp protruding flake is left on the surface.
- Broom and discard excess flake.
- Vacuum thoroughly.

Step 4

Top Coats - using Avista Polyurethane or Avista 2 Pack Urethane

First coat

- Approximate coverage - 3m² per litre
- Apply Avista Polyurethane or Avista 2 Pack Urethane by using a 100% mohair roller. Ensure even application.

Application subsequent coats

- Two additional coats are required.
- Approximate coverage - 6-10m² per litre.
- Second and third coats should be applied within 6-18 hours of previous coat, 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.
- A slip resistant additive may be added to the final coat, particularly if the area gets wet. Refer to Avista Slip Reducing TDS. Gloss reduction will occur.

Option 3 - Partial Flake application system

Approximate 2 day application.

System overview

- Avista Water Based Epoxy
- Avista Decorative Flakes
- Avista Polyurethane Sealer or Avista 2 Pack Urethane

Step 1

Preparation

- Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. **The surface needs to be prepared by either grinding or acid etching.**
- **Grinding:** If the floor is smooth, grinding is advised as this will maximise adhesion. If paint or curing agent has been applied, grinding is necessary.
- **Acid treatment:** Acid etch with hydrochloric acid. Dilute approx 10 parts water to 1 part acid (depending on porosity) to remove any loosely bound cement and laitence. Apply acid by using a watering can with a large shower head. Apply evenly over the dry surface. Do an area of approximately 10 m² 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 (Acid etching should be used on large open areas, example factories and warehouses)

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- *Note If acid washing a garage floor, hose down the driveway first so the acid will not bleach the driveway surface when washing the garage out.*

Step 2

Application Avista Waterbased Epoxy

Mixing

- Mix A and B in correct proportions (1:1 by volume) in a clean, dry 10 or 20L bucket. Mix thoroughly for 2 minutes with mechanical mixer at medium speed until mix colour is uniform (white).
- Add 1 x 400ml Avista Waterbased Colour Tint per 8L kit. Mix thoroughly until even colour is achieved.
- Pot life, approximately 2-4 hours.
- *Note Surface can be damp when Water Based Epoxy is applied (as long as no pools of water are on surface).*

Application method

- Apply mixed product using a roller and roller tray.
- Ensure coat is applied evenly.
- Apply minimum 2 coats.
- Third coat may be required to ensure solid colour coverage If white colour is required.
- Allow approximately 4 hours between coats, depending on conditions.

Note: First coat can be diluted up to 10% with water if surface is dry

Step 3

Applying Partial Flake

NOTE: for self blending of flake colours, contact Parchem for advice.

- Remove flake from box and place in a suitable clean, dry bucket.
- Avista Water Based Epoxy must have adequate film build for flake to adhere to. Do not allow to dry prior to applying flake as this can result in a patchy appearance. It is suggested to complete this step in manageable sections, by rolling approximately 10m² of Water Based Epoxy and applying partial flake whilst area is still wet.
- Immediately after applying Avista Water Based Epoxy coating and while resin is tacky, walk out on the job wearing spiked shoes and sprinkle the dry flake over the surface so it is partially covered. The best method is to have very little flake in hand and throw it up high so it falls evenly (less is best as you can always add more)

- Allow Avista Water Based Epoxy to cure (approximately 4-6 hours depending on conditions prevailing).
- Once completely dry, broom and discard excess flake.
- Vacuum thoroughly.

Step 4

Top Coats - using Avista Polyurethane or Avista 2 Pack Urethane

First coat

- Approximate coverage - 3m² per litre
- Apply Avista Polyurethane or Avista 2 Pack Urethane by using a 100% mohair roller. Ensure even application.

Application subsequent coats

- One extra coat is needed to get coverage over the partial flake
- Approximate coverage - 6-10m² per litre.
- Second coat should be applied within 6 -18 hours of previous coat, 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.
- A slip reducing additive may be added to the final coat, particularly if the area gets wet. Refer to Avista Slip Reducing Additive TDS. Gloss reduction will occur

Supply

FD400476-5KG AVISTA FLAKE ASHY GREY

FD400477-5KG AVISTA FLAKE DEEP GRANITE

FD400478-5KG AVISTA FLAKE MIDNIGHT STONE

FD400479-5KG AVISTA FLAKE GREY CLOUDS

FD400480-5KG AVISTA FLAKE TAWNY SAND

FD400481-5KG AVISTA FLAKE NAVY GRANITE

Cleaning

Clean up Avista Epoxy, Avista Polyurethane and Avista 2 Pack Urethane with Avista Solvent.

Clean up with water when using Avista Water Based Epoxy.

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Safety

Recommended PPE:

- Organic vapour respirator mask
- Solvent resistant gloves
- Safety eye wear
- Appropriate foot wear

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.

