

## Dry shake powder to colour and harden concrete

### Description

Avista Wet Concrete Colour Hardener is a dry shake coloured cement based powder designed predominantly to colour and harden concrete surfaces.

Available in a wide range of colours (please see colour chart).

### Uses

Designed predominantly to colour and harden concrete surfaces and is used in conjunction with releaser in preparation for Stamped Impression Concrete. Avista Wet Concrete Hardener can also be used in the application of Stenciled Concrete. Other uses include plain coloured concrete applications, coloured kerbing and artificial rock work. Avista Wet Concrete Colour Hardener is a suitable application for driveways, patios, pool surrounds, pathways and most freshly poured concrete.

### Advantages

- Wide range of colours available
- Excellent coverage rate
- High abrasion resistance
- Ease of trowelability
- Able to create variety of finishes with the one product

### Properties

<b>Dry Density (AS/NZS 4456.8 – 1997):</b>	2010 kg/m <sup>3</sup>
<b>Compressive Strength (AS/NZS 4456.4 – 1997):</b>	47 MPa
<b>Abrasion Index (unsealed) (AS/NZS 4456.9 – 1997):</b>	0.29
<b>Coefficient of Friction (unsealed) (AS/NZS 3661.1 – 1993 APP A)</b>	0.28 (Texture Dependent)

### Limitations

- Control of application time to concrete set is most important.
- Application rate controls even colouration and strength.
- Applied over too much surface water leads to an uneven patchy appearance with low strength.
- One heavy application tends to be uneven, crusty and can fracture in a honeycomb unacceptable appearance. Adhesion can be affected.
- Steel trowelling can result in a smooth finish texture, which may cause a hazardous slip factor. The use of a wood or magnesium float will produce a more textured, less slippery finish.

## Standard Application for Coloured Concrete

### Freshly poured concrete

- Avista Wet Concrete Colour Hardener is broadcast in a minimum two separate, even coats after concrete has been screeded and bull floated.
- Avista Wet Concrete Colour Hardener is applied by hand casting to freshly poured concrete. Ensure gloves and protective mask is worn.
- Dusting and/or colour staining may occur on surrounding exposed surfaces or structures. Masking with plastic sheeting is recommended where appropriate.
- Apply first coat after bleed water has disappeared, as hydrating bleed water may cause delamination.
- Apply at the rate of approximately 8-15 square metres per 20 kg bag (recommended 8m<sup>2</sup> per bag for commercial areas).
- After colour hardener has been applied, bullfloat or trowel total area to achieve a smooth even coloured surface.
- Over-trowelling the surface may cause cement slurry to rise through the colour hardener resulting in discolouration
- Under-trowelling the surface may weaken the compressive strength of the colour hardener, greatly reducing its service life.
- Repeat application process for second coat. A third coat may be required, depending on the colour, (lighter colours get less m<sup>2</sup>). Allow approximately 8m<sup>2</sup> per bag for lighter colours.

### Suggested Textures

These are only a small selection of the type of finishes available.

#### Steel trowel finish - Smooth

Steel trowels produce a smooth finish. Bear in mind that steel trowelled finishes can become slippery when wet.

**Caution:** Avoid steel trowelled or smooth finishes on sloping driveways and roadways and sloping pathways.

#### Coving trowel finish

Coving trowels produce an even finish, with a very mild swirling texture. As with steel trowelled finishes, coving trowel finishes can also tend to become slippery when wet.

Coving or re-coving areas at different times will result in colour variation.

**Caution:** Avoid coving trowel or smooth finishes on sloping driveways and roadways and sloping pathways.

#### Broom finish

Broom finishes produce a textured surface and are less likely to be slippery when wet. Broom finishes are achieved by pulling a broom across the concrete surface after it has been steel trowelled.

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Before applying a broom finish, the colour hardened surface must be firm. Clean the broom after each pass over the concrete surface.

## Scratch finish

Scratch finishes more closely simulate stone and brick masonry paving. To achieve this “look” will first require a slight adjustment in the timing between the base coat (first) and surface coat (second) application of the colour hardener.

Allow the trowelled-in base coat of colour hardener to sit only slightly longer than normal.

Apply the surface coat of colour hardener, and allow it to “dry-up” almost all of the remaining surface moisture.

Use kneeling boards and with a wood float work (scratch) the surface coat of colour hardener into the base coat.

**NOTE:** To achieve optimum results and maximum compressive strength, the coarse aggregates of the surface coat of colour hardener must be fully imbedded (worked) into the surface.

## Hit and Miss

**The name Hit and Miss describes the finished look, NOT the method of application.**

This finish may be done when the concrete is dry enough and hard enough to support the weight of a finisher either on knee boards or walking with flat sole shoes. This finish is achieved by trowelling the concrete surface at different pressures throughout the job, leaving about 50% smooth and 50% rough texture in the surface to give a similar appearance of brick paving. The high points within the surface are smoother, and the low points are left with a coarse finish

**IMPORTANT: BOTH COATS OF COLOUR HARDENER MUST BE SUFFICIENTLY TROWELLED TO ENSURE DURABILITY OF DECORATIVE SURFACES.**

The above finishes are guidelines only. There is no recommended type of finishing method. The main requirement is that the colour has been sufficiently worked into the concrete surface to obtain durability.

Prevailing weather conditions combined with inappropriate mix designs of concretes can limit the time for concrete placement and finishing and the application of the Fauxtex stencil pattern concrete system.

## Sealing

- Parchem recommend allowing concrete to cure for minimum 14 days before cleaning and sealing.
- Refer to relevant Avista Sealer Technical Data Sheet.

## Application for Stamped and Stencil Patterned Concrete

Refer to Parchem's Stencil or Stamped Concrete Application Manuals.

## Supply

178130	AVS COLOUR HARDENER BLACK 20KG
178131	AVS COLOUR HARDENER BLUESTONE 20KG
178132	AVS COLOUR HARDENER BRICK RED 20KG
178133	AVS COLOUR HARDENER BRAZIL NUT 20KG
178134	AVS COLOUR HARDENER BURGUNDY 20KG
178135	AVS COLOUR HARDENER CARAMEL 20KG
178136	AVS COLOUR HARDENER CHARCOAL 20KG
178137	AVS COLOUR HARDENER CHESTNUT 20KG
178138	AVS COLOUR HARDENER CHOCOLATE 20KG
178139	AVS COLOUR HARDENER COFFEE 20KG
178140	AVS COLOUR HARDENER CREAM 20KG
178141	AVS COLOUR HARDENER DARK TERRACOTTA 20KG
178142	AVS COLOUR HARDENER DESERT SAND 20KG
178143	AVS COLOUR HARDENER FRENCH GREY 20KG
178144	AVS COLOUR HARDENER GREY 20KG
178145	AVS COLOUR HARDENER GUN METAL 20KG
178146	AVS COLOUR HARDENER LATTE 20KG
178147	AVS COLOUR HARDENER LITE TERRACOTTA 20KG
178148	AVS COLOUR HARDENER LITE MOCHA 20KG
178149	AVS COLOUR HARDENER MERINO 20KG
178150	AVS COLOUR HARDENER SANDSTONE 20KG
178151	AVS COLOUR HARDENER SANDY BEIGE 20KG
178152	AVS COLOUR HARDENER WHITE 20KG
178153	AVS COLOUR HARDENER VINTAGE BUFF 20KG

## Coverage

20 kg bag covers 8-15 m<sup>2</sup> or as specified.

## Shelf Life

12 months if kept unopened and stored in cool, dry conditions. After this time, product should be checked to ensure it's suitability for use (no lumps).

## Storage Conditions

Store in cool, dry area in unopened bag.

# Avista™ Wet Concrete Colour Hardener

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## Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 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. Parchem 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.

**AVISTA™**



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