

## AUAV00108 Dulux Avista Concrete Patch Repair Compound 3-40mm

### Introduction

Product Code  
**FC378186-20KG**

### Product Overview and Image

#### High strength patch repair mortar 3 - 40mm

Dulux Avista Patch Repair Compound 3-40mm is a high strength mortar for repairing concrete surfaces. It can be applied up to a maximum thickness of 40mm.

Dulux Avista Concrete Patch Repair Compound is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent, high strength repair mortar. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a mortar with good handling characteristics.

Dulux Avista Concrete Patch Repair Compound is designed for horizontal use. It may be applied up to a maximum thickness of 40mm. Thicker sections can be built up in layers. The material should not be applied at less the 3mm thickness.

Product Category  
**Concrete Repair**






### Features and Benefits

- Rapid strength gain - will generally accept pedestrian traffic at 16 hours
- High strength, abrasion and weather resistance
- Single component product eliminates site batching and requires only the site addition of clean water
- Excellent bond to the concrete substrate
- Shrinkage compensated
- Contains no chloride admixtures

### Uses

High strength patch repair mortar for repairing concrete surfaces. The rapid strength gain of Dulux Avista Concrete Patch Repair Compound minimises downtime. Can be used internally & externally.

Typical Properties			
Components 1			
Pot Life 2 hours @ 23°C			
Yield 11.2 litres			
Clean Up <div> Water</div>			
Sizes 20kg bag			
Application Methods <div><div> Floor Squeegee</div><div> Trowel</div></div>			
Drying Time			
	Min	Max	Recommended
Comments	Initial set time - 5 hours 23°C Final set time - 7 hours 23°C		
	Traffic time Pedestrian: 30 hours @ 15°C, 16 hours @ 23°C, 12 hours @ 30°C		
	Vehicle: 54 hours @ 15°C, 24 hours @ 23°C, 20 hours @ 30°C		
Typical Property Notes Results obtained at 23°C using 3.5 L of water / 20 kg bag.  At 3.5 litres of water will yield approx 11.2 litres of ready to use product. This will cover approx 0.28m² at 40mm thick.  The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.			

Product Properties	
Conditions <b>Results obtained at 23°C using 3.5 L of water / 20 kg bag.</b>	
Compressive Strength (AS1478.2-2005) <b>20 MPa @ 1 day</b> <b>40 MPa @ 7 days</b> <b>55 MPa @ 28 days</b>	
Modulus of Rupture (Flexural Strength) (AS1012.11-2000) <b>3.8 MPa @ 1 day</b> <b>6.8 MPa @ 7 day</b> <b>8.0 MPa @ 28 days</b>	Indirect Tensile Strength (AS1012.10-2000) <b>2.2 MPa @ 1 day</b> <b>4.1 MPa @ 7 days</b> <b>5.0 MPa @ 28 days</b>
Dimensional Change (Drying Shrinkage) (AS1478.2-2005) <b>&lt; 500 microstrain @ 7 days</b> <b>&lt; 1000 microstrain @ 28 days</b>	

## Application Guide

### Surface Preparation

#### Preparation

Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. Where breaking out is not required, roughen the surface and remove any laitance by light scabbling, grit blasting, scabbling or by needle-gun to form a good key.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a tape pull-off test.

Expose fully any corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned back to a bright condition paying particular attention to the back of exposed steel bars. Grit-blasting is recommended for this process.

Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water immediately after grit - blasting to remove corrosion products from pits and imperfections within the surface.

The prepared area should be blown clean with oil-free compressed air.

#### Reinforcing steel priming

Apply one full coat of Dulux Metalshield Cold Galv Primer to all exposed reinforcing steel and allow to dry before continuing. If any doubt exists about having achieved an unbroken coating, a second application should be made and, again, allowed to dry before continuing.

#### Substrate priming

The substrate should be thoroughly soaked with clean water and any excess removed immediately prior to priming. Any areas of the substrate which dry out before application of the primer must be re-dampened before continuing.

Apply Dulux Avista Resurfacing Primer diluted (1 part modifier and 3 parts water) onto a dampened surface ensuring complete coverage particularly around the edges.

Apply the topping whilst the Dulux Avista Resurfacing Primer is still tacky. The priming operation must be repeated if the initial coat has dried out.

### Application Procedure and Equipment

#### Mixing

Care should be taken to ensure that Dulux Avista Concrete Patch Repair Compound is thoroughly mixed. A forced action mixer is essential. Mixing in a suitably sized drum using an approved spiral paddle in a slow speed (400/500 rpm) heavy duty drill is acceptable for the occasional one bag mix. Free-fall mixers must not be used. Mixing of part bags should not be attempted.

Place 2.8 - 3.5 litres of drinking quality water into the mixer and, with the machine in operation, add one full 20 kg bag of Dulux Avista Concrete Patch Repair Compound and mix for 3 minutes until fully homogeneous. Note that powder must always be added to water.

For larger areas, water should be mixed 50:50 with Dulux Avista Resurfacing Primer, for example, 1.75L of water and 1.75L Dulux Avista Resurfacing Primer to yield a 3.5L mix per 20kg bag.

#### Application

The mixed Dulux Avista Concrete Patch Repair Compound must be applied onto the primed surface before it dries. Areas which dry too soon must be scrubbed clean and reprimed exactly as described above before continuing.

Apply the mixed Dulux Avista Concrete Patch Repair Compound onto the primed substrate as soon as possible after mixing. The mortar should be applied evenly by trowel and tamped in place with wood float to ensure full compaction. Thoroughly compact the mortar around any exposed steel reinforcement. Dulux Avista Concrete Patch Repair Compound can be applied up to 40 mm thickness in single applications.

#### Build-up

Sections greater than 40mm thickness can be achieved by application of multiple layers should be scratch-keyed, covered with polythene sheeting secured at the edges, and allowed to set for a minimum of 7 hours (at 23°C) before continuing. Dampening down as described above, and a further application of Dulux Avista Concrete Patch Repair Compound may proceed at this time.

#### Finishing

Dulux Avista Concrete Patch Repair Compound should be struck off to the correct level and finished with a steel trowel to fully close the surface. The completed surface should not be overworked. If overcoating with resurfacing product, strike off with a straight edge and then finish with a wooden float to provide a good key.

#### Low temperature working

In cold conditions down to 10°C, the use of warm water (up to 30°C) is advisable to accelerate strength development. Normal precautions for winter working with cementitious materials should then be adopted. The material should not be applied when the substrate and/or air temperature is 10°C and falling. At 10°C static temperature or at 10°C and rising, the application may proceed.

#### High temperature working

At ambient temperatures above 30°C, the material should be stored in the shade and cool water used for mixing.

#### Curing

Dulux Avista Concrete Patch Repair Compound is a cement-based repair mortar. Dulux Avista Concrete Patch Repair Compound must be cured with Hessian or plastic immediately after finishing.

#### Overcoating with protective finishes

Dulux Avista Concrete Patch Repair Compound is extremely durable and will provide an excellent hard wearing surface to the repaired locations. A decorative resurfacing finish may be applied over the repair area after approximately 4 - 6 hours.

#### Cleaning

Dulux Avista Concrete Patch Repair Compound and Dulux Avista Resurfacing Primer should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

### Health and Safety

SDS Number  
**PAR000187**

SDS Link  
[View SDS Link](#)

**Please refer to SDS Link. In case of emergency, please call 1800 220 770.**

### Precautions and Limitations

Not to be used when temperature is below 10°C.

Do not mix part bags.

Should not be exposed to moving water during application. Exposure to heavy rainfall prior to the final set may result in surface scour. If any doubts arise concerning temperature or substrate conditions, consult Dulux Avista Customer Service.

When repairing areas greater than 5m<sup>2</sup> contact Dulux Avista Customer Service.

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The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

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WHERE LEAD MAY BE PRESENT: The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS 4361 Parts 1 and 2 and Worksafe Australia guidelines.