

## NZDU02294 Dulux Surfaceshield HD on New Masonry [Exterior]

### Scope of Works

Surfaceshield HD (heavy duty) is a water-based solution used to protect vertical surfaces from damage caused by graffiti and pollution as well as meeting the most stringent VOC regulations. Surfaceshield HD is a non-sacrificial coating and hence long term surface protection is achieved after a single application. Its non film-forming characteristics mean that Surfaceshield HD penetrates even the smallest pores without modifying the optical appearance of the substrate. Graffiti on surfaces protected with Surfaceshield HD can be removed using hot water pressure, making it the ideal solution where economic maintenance cleaning is desired. The use of graffiti removers may also be required in combination with hot water pressure cleaning for the removal of stubborn graffiti. Surfaceshield S (sacrificial) is a microfilm surface treatment that is safely and efficiently applied onto a range of surfaces to provide protection against graffiti and normal atmospheric dirt and grime. It is water-based, non flammable, and meets the most stringent VOC regulations. Surfaceshield S allows for the safe, effective and economical removal of most types of graffiti, saving the surfaces from costly traditional methods of removing graffiti such as chemical stripping, abrading or scarifying. Once graffiti has been removed, Surfaceshield S can be economically reapplied and avoids the high cost of preparing and re-painting surfaces. ANTI GRAFFITI OVER BARE SUBSTRATE (EXCL TILT UP) – SPECIALIST WATER BASED SACRIFICIAL COATING SYSTEM Gloss level: Invisible Coating type: Water based copolymer/Waterborne vegetable biopolymer sacrificial coating

### Substrate and Substrate Preparation

#### Substrate Notes

This is a generic masonry and cementitious substrate. It includes concrete block substrates. The following substrates are excluded: Precast, Tilt-up and Off-form, Concrete Flooring, Roof Tiles and Cement Render. Other specialty masonry or cementitious substrates may also not be covered by this substrate.

#### BRICK

Bricks are predominantly kiln-fired clay, which can be glazed or unglazed. The glazing on glazed bricks should be ground or scabbled to improve adhesion of the coating system. Brickwork is often raked, so rendering requires much more material than face-laid brickwork. The surface must be clean and sound, free of dirt, grime, mould, fungus, stains, powdery mortar smears and all other contaminants. The surface should be examined to determine if it has been laid to specification (flush jointed or face laid) and that the surface variation is within acceptable tolerances. If applying a texture coating, the degree to which the texture coating camouflages flush walls depends on how flush the substrate has been constructed.

#### BLOCKWORK

Blockwork is largely cement based and highly porous, and usually flush-laid. The surface should be examined to determine if it has been laid to specification (flush jointed or face laid) and that the surface variation is within acceptable tolerances. The degree to which texture coatings camouflage flush walls depends on how flush the substrate has been constructed.

#### AUTOCLAVED AERATED CONCRETE (AAC)

AAC is manufactured from sand, lime and cement, to which is added water and aluminium paste. After mixing, the cement slurry is poured into moulds. The aluminium paste reacts with the alkaline elements in the mixture and forms hydrogen gas. This liberated gas expands the mixture forming extremely small finely dispersed air spaces. The product is removed from the mould after a few hours, cut to the required dimension and finally cured under pressure in a steam autoclave.

AAC Block Wall Systems are (typically) load-bearing external wall solutions for homes as an alternative to traditional double brick construction. Blocks are glued together (thin bed) using AAC Manufacturer's adhesive to a design standard of providing a level, fully filled joint.

AAC Panel is (typically) a 50 or 75mm panel of Autoclaved Aerated Concrete (AAC) with corrosion protected steel reinforcement embedded during production. This lightweight, yet solid masonry panel is designed for external cladding in timber or steel frame construction. Panels are glued together (thin bed) using AAC Manufacturer's adhesive to a design standard of providing a level, fully filled joint.

#### Substrate Preparation Notes

##### ASSESS SUITABILITY

Concrete, mortar and cement based products need to be fully cured for at least 28 days before painting, unless using Dulux AcraTex HAR primer.

##### PREPARE SURFACE

Remove any powdery layers, laitance, efflorescence and protrusions of mortar by detergent cleaning, wire brushing, water blasting or a suitable chemical treatment.

##### CLEAN

Clean the surface thoroughly by water blasting or detergent cleaning, where a commercial cleaner is added to hot or cold water and surface is washed / scrubbed thoroughly with a stiff bristle broom and then rinsed clean with fresh water. This may need to be repeated on extremely dirty surfaces to ensure removal of efflorescence or other poorly bonded surface material. Ensure that the surface is dry, clean and free from dust. Efflorescence may also be removed with an acid treatment, followed by washing down the surface with water.

##### REPAIR SURFACE IMPERFECTIONS

Fill any cracks or surface imperfections with a suitable filler or patching compound.

##### RENDERING OF NEW BRICK/ BLOCKWORK & MASONRY

Refer to Dulux AcraTex Texture coatings for suitable levelling and texture systems.

### Coating System Summary

- 1st Coat Dulux PREP WASH
- 2nd Coat Dulux Surfaceshield HD
- 3rd Coat Dulux Surfaceshield S

### Coating System

#### 1st Coat — Dulux PREP WASH

Coat Type  
**1st Coat**

Datasheet  
**NZDU00398 Dulux PREP WASH**

Read the full Datasheet details at [Dulux PREP WASH](#)

#### Application Methods



**Brush**

	Min	Max	Recommended
Theoretical Spread Rate (m <sup>2</sup> /L)	<input type="text" value="6"/>	<input type="text" value="12"/>	<input type="text"/>
Recoat Time **	<input type="text" value="n/a"/>	<input type="text" value="n/a"/>	<input type="text" value="n/a"/>

Meets ECNZ V.O.C. Requirements?

**Not Applicable**

#### Coating Application Details

Apply by broom or brush. Or by garden sprayer.

1. Add one part Dulux Prep Wash concentrate to one part water in a clean plastic bucket and mix well.
2. Test on a small inconspicuous area at recommended dilution to determine effectiveness and strength required.
3. Apply diluted Dulux Prep Wash solution to walls/roof/trim with a broom/brush or garden sprayer. Leave the solution on the surface until mould and mildew stains disappear or soften (approximately 10 minutes), avoiding allowing the solution to dry out. Scrub vigorously.
4. Rinse off the surface with water using a high pressure or garden hose and allow surface to dry. Surface may be slippery while wet (roof). Stubborn stains may require longer time, more vigorous scrubbing, or additional treatment. Severely stained surfaces may need a power washer, or treatment with undiluted Dulux Prep Wash concentrate.

SDS Number  
**000000022880**

SDS Link  
[View SDS Link](#)

#### 2nd Coat — Dulux Surfaceshield HD

Coat Type  
**2nd Coat**

Datasheet  
**NZDU00545 Dulux Surfaceshield HD**

Read the full Datasheet details at [Dulux Surfaceshield HD](#)

#### Application Methods



**Air Spray**





**Airless Spray**

	Min	Max	Recommended
Theoretical Spread Rate (m <sup>2</sup> /L)	<input type="text"/>	<input type="text" value="3"/>	<input type="text" value="5"/>

Meets ECNZ V.O.C. Requirements?

**Not Applicable**

3rd Coat — Dulux Surfaceshield S			
Coat Type <b>3rd Coat</b>	Datasheet <b>NZDU00527 Dulux Surfaceshield S</b>		
Read the full Datasheet details at <a href="#">Dulux Surfaceshield S</a>			
Application Methods			
<div>  <b>Air Spray</b>  <b>Airless Spray</b> </div>			
Theoretical Spread Rate (m²/L)	Min	Max	Recommended
	<input type="text" value="6"/>	<input type="text" value="2"/>	<input type="text"/>
Meets ECNZ V.O.C. Requirements? <b>Not Applicable</b>			
Coating System Notes * Theoretical Coverage is the area is the area covered by 1 Litre of material at the specifiacion 'Dry Film Thickness' without a loss to a smooth and non porous surface.			

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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/ NZS 4361 Parts 1 and 2 and Worksafe Australia or New Zealand guidelines.