NZAC00415 Dulux Acratex AcraShield Advance Matt on New Masonry [Exterior]

Scope of Works

DULUX AcraTex AcraShield Advance is a high build, pigmented, water based 100% acrylic, weatherproofing and anti-carbonation barrier coating available in a low gloss and matt finish.

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 Acratex Green Render Sealer
- 2nd Coat — Dulux Acratex AcraShield Advance Matt
- 3rd Coat — Dulux Acratex AcraShield Advance Matt

Coating System

1st Coat — Dulux Acratex Green Render Sealer

Coat Type	Datasheet
1st Coat	**NZAC00038 Dulux Acratex Green Render Sealer**

Read the full Datasheet details at Dulux Acratex Green Render Sealer

Application Methods

Air Spray **Airless Spray** **Brush** **Roller**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	8	7	8
Wet Film Per Coat (microns)	126	143	126
Dry Film Per Coat (microns)	44	50	44
Recoat Time **	4 hours	4 hours	4 hours

V.O.C. Level
20 g/L

Meets ECNZ V.O.C. Requirements?
Yes

Total Volatile Organic Content (TVOC) values are calculated in accordance to the stated methodology within Green Star Technical Manuals. The TVOC content is theoretically calculated as the sum total of the known VOC values of the product's raw material components. These materials include the base paint plus additional low VOC tinter required for non-factory packaged colours.

Coating Application Details

Brush, roller and airless spray
Brush and roll at the same time to avoid picture framing.

Product should be thoroughly mixed before use. Refer to the Dulux Acratex Application Manual for detailed instructions.
A 10-20mm nap roller is used depending on the type of surface profile being overcoated.

Typical Airless Spray set up is: Graco Ultra 500 using 0.017-0.019 spray tip at approx. 1000 psi.

SDS Number	SDS Link
DLX002555	**View SDS Link**

2nd Coat — Dulux Acratex AcraShield Advance Matt

Coat Type	Datasheet
2nd Coat	**NZAC00074 Dulux Acratex AcraShield Advance Matt**

Read the full Datasheet details at Dulux Acratex AcraShield Advance Matt

Application Methods

Air Spray **Airless Spray** **Brush** **Roller**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	6	4.5	6
Wet Film Per Coat (microns)	167	222	167
Dry Film Per Coat (microns)	75	100	75
Recoat Time **	2 Hours	Indefinite	

V.O.C. Level
<90g/L

Meets ECNZ V.O.C. Requirements?
Not Applicable

Coating Application Details
Brush, roller and airless spray
Brush and roll at the same time to avoid picture framing.

Product should be thoroughly mixed before use. Refer to the Dulux Acratex Application Manual for detailed instructions.
Dulux Acratex AcraShield Advance may be applied by brush, roller or airless spray. A 10-20mm nap roller is used depending on the type of texture being overcoated.

Typical Airless Spray set up is: Graco Ultra 500 using 0.019-0.021 spray tip at approx. 1000 psi.

SDS Number
DLX003010

SDS Link
View SDS Link

3rd Coat — Dulux Acratex AcraShield Advance Matt

Coat Type
3rd Coat

Datasheet
NZAC00074 Dulux Acratex AcraShield Advance Matt

Read the full Datasheet details at Dulux Acratex AcraShield Advance Matt

Application Methods

Air Spray **Airless Spray** **Brush** **Roller**

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	6	4.5	6
Wet Film Per Coat (microns)	167	222	167
Dry Film Per Coat (microns)	75	100	75
Recoat Time **	2 Hours	Indefinite	

V.O.C. Level
<90g/L

Meets ECNZ V.O.C. Requirements?
Not Applicable

Coating Application Details
Brush, roller and airless spray
Brush and roll at the same time to avoid picture framing.

Product should be thoroughly mixed before use. Refer to the Dulux Acratex Application Manual for detailed instructions.
Dulux Acratex AcraShield Advance may be applied by brush, roller or airless spray. A 10-20mm nap roller is used depending on the type of texture being overcoated.

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SDS Number
DLX003010

SDS Link
View SDS Link

Coating System Notes

* Practical Spreading Rate will vary from the quoted Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness. ** Recoat times are quotes for 25°c and 50% relative humidity, these may vary under different conditions.

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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.