NZAC00376 Dulux Acratex AcraShield Advance Matt on Painted 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
Inspect to determine the degree of deterioration of existing coatings. Identification of the existing coating is also very helpful in determining the repaint system. Check coating adhesion using the cross-cut adhesion test, carried out in various locations.

REMOVE SURFACE CONTAMINANTS
Clean to remove all dirt, dust, efflorescence, laitance, powdery surfaces, mould and all other surface contaminants by using a suitable cleaning agent, such as Dulux Prep Wash and rinsing/water blasting clean with water. Water blasting will also give a good indication as to the coatings integrity. Efflorescence may also be removed with an acid treatment, followed by washing down the surface with water.

REPAIR SURFACE IMPERFECTIONS
Prepare all areas that have poor adhesion, cracking, peeling and flaking by sanding, power sanding, scraping, wire brushing, grit blasting, burning off or chemical stripping as appropriate, to leave a clean surface. Feather edges of the surrounding sound paint to completely remove visual ridges and wash/dust off to remove debris. Any major design faults leading to structural failure must be corrected prior to repainting. Use an acrylic based patching compound with the addition of 10-20% fresh Portland cement to patch any surface defects.

SANDING
Sand the entire cleaned coating to an even flat gloss level to provide a smooth, even surface and to provide a good key for the new coating system to adhere to. Ensure all sanding dust is removed prior to continuing.

PRIME
Spot prime any exposed areas with a suitable water based primer. If a specialized, penetrating solvent based primer is required, use Dulux AcraTex 501/2 AcraPrime solvent based primer.

ADDITIONAL NOTES:
• Ensure all previously painted enamel finishes are thoroughly abraded to ensure adequate adhesion of subsequent coating system.

Coating System Summary

- 1st Coat — Dulux PREP WASH
- Spot Primer — Dulux Acratex Acra-Prime 501/1 Water Based
- 2nd Coat — Dulux Acratex AcraShield Advance Matt
- 3rd Coat — Dulux Acratex AcraShield Advance Matt

Coating System

1st Coat — Dulux PREP WASH

Coat Type	Datasheet
1st Coat	**NZDU00398 Dulux PREP WASH**

Read the full Datasheet details at Dulux PREP WASH

Application Methods

Brush

Broom Garden sprayer

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	6	12	
Recoat Time **	n/a	n/a	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	SDS Link
000000022880	**View SDS Link**

Spot Primer — Dulux Acratex Acra-Prime 501/1 Water Based

Coat Type	Datasheet
Spot Primer	**NZAC00211 Dulux Acratex Acra-Prime 501/1 Water Based**

Read the full Datasheet details at Dulux Acratex Acra-Prime 501/1 Water Based

Application Methods

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

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	10	5	10
Wet Film Per Coat (microns)	65	130	65
Dry Film Per Coat (microns)	20	40	20

Recoat Time **	2 Hours	NA	

V.O.C. Level **< 5g/L**	Meets ECNZ V.O.C. Requirements? **Not Applicable**

Coating Application Details
Brush, roller, conventional or airless spray.
Refer to the DULUX AcraTex Applicators Training Manual for detailed instructions.
Typical airless set-up: Wagner PS 24 using 411-413 spray tip at approx. 1000 psi.

SDS Number **14557202**	SDS Link **View SDS Link**

2nd Coat — Dulux Acratex AcraShield Advance Matt

Coat Type **2nd 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.

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	Meets ECNZ V.O.C. Requirements?
<90g/L	**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	SDS Link
DLX003010	**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.