NZDU03759 Dulux Weathershield Low Sheen on New Precast, Tilt-up and Off Form Concrete [Exterior]

Scope of Works

DULUX Weathershield X10 Low Sheen Acrylic is a 100% acrylic self priming paint for exterior use. Its unique MaxiFlex Stretch Technology gives a tough flexible finish, for long life protection from the extremes of weather.

Substrate and Substrate Preparation

Substrate Notes

For other masonry and cementitious substrates (such as concrete block) please use the Masonry substrate.

OFF FORM CONCRETE
Off-form Concrete is produced by placing suitable forms and shoring to hold the wet concrete into the required shape. Reinforcements are placed within or on the formwork to give concrete its strength. Once the formwork and shoring are removed the result is the off form concrete.

TILT UP
Tilt-up concrete is derived simply from the method of construction, wall panels are cast on a horizontal surface that then require lifting, and tilting vertically into their final position. Construction is commenced with the laying of the structures foundation and floor slab, wall panels are then cast on the floor one on top of each other in a stack arrangement.

PRE-CAST
Pre-Cast concrete are concrete panels that are cast on horizontal vibrating beds that are then cured in racks that are delivered to site that then require lifting, and positioned into their final position.

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. Check for the presence of release agents (bond breakers) by sprinkling water onto the substrate, if water beads on the surface then release agents are still present and require removal. Use Dulux AcraTex 400/4 Tiltwash to remove release agents, according to label instructions. Repeat the water bead test.

REPAIR SURFACE IMPERFECTIONS
Fill any cracks or surface imperfections with a suitable filler or patching compound, with the addition of 10-20% fresh Portland cement to match the existing surface. Structural control or expansion joints should be filled with flexible, paintable mastic.

CHECK MOISTURE
Concrete moisture should be less than 10%.

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 Tiltwash 400/4
- 2nd Coat — Dulux 1 Step Prep Water Based Primer Sealer Undercoat
- 3rd Coat — Dulux Weathershield Low Sheen
- 4th Coat — Dulux Weathershield Low Sheen

Coating System

1st Coat — Dulux Acratex Tiltwash 400/4

Coat Type	Datasheet
1st Coat	**NZAC00216 Dulux Acratex Tiltwash 400/4**

Read the full Datasheet details at Dulux Acratex Tiltwash 400/4

Application Methods

Air Spray **Airless Spray**

Garden pressure atomiser

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	7	7	7

V.O.C. Level	Meets ECNZ V.O.C. Requirements?
0	**Not Applicable**

Coating Application Details

Garden pressure atomiser/airless spray
A sample area should be trialled first then checked for the presence of bondbreaker.

Suitable substrates: Tilt Up/ Off Form Concrete/ Pre Cast Concrete
Commence application, working from bottom of panel upward.

Apply using an airless spray unit (eg Graco 695 with a .0015 - .0019 tip at 1000 psi) or a low pressure knapsack spray unit.

Large panels should be articulated into manageable work areas, always maintaining a wet edge ensuring rinsing of TiltWash is actioned prior to the area drying. If TiltWash dries, re-apply TiltWash to the affected area and rinse thoroughly.

Flood the area with an excess of material with a heavy spray rather than a thin jet or light mist. This will produce a foaming wave of excess material descending down the panel.

As TiltWash is applied the panel should take on a darkened appearance. Should this not happen, apply a second coat of TiltWash and consult with Dulux AcraTex if the panel does not darken (excessively applied water based bondbreaker may be the cause).

NOTES:

1. Chemical goggles, gloves and a mask should be worn at all times whilst pouring and applying TiltWash.
2. Application of TiltWash should be with an airless spray unit or low pressure knapsack spray only.
3. Application of TiltWash on large panels is a 2-man procedure, one to apply TiltWash the other rinsing with water. Never allow TiltWash to dry before rinsing.

RINSING TILTWASH

Rinse panel with a flood of water (heavy spray not jet) deluging panel from top to bottom.
Ensure extra care is taken whilst rinsing to ledges, sills and all fixtures on panels.
A second rinse should be performed whilst panel is still wet from initial rinse. This is to make sure all remnants of bondbreaker and TiltWash are removed.

This product should not be released into any watercourses, drains or gutters neat or diluted and should be contained and disposed of under local waste management procedures. An environmental duty of care must be executed at all times whilst using this product.

NOTES:

1. Do not wait until TiltWash is drying on panel before rinsing. Rinsing must occur whilst TiltWash is still wet and active to remove all traces of bondbreaker and TiltWash.

2. Water pressure should be at least 80 psi or 28kpa.

3. A second rinse is imperative to the performance of TiltWash.

PRIOR TO PAINTING
Cross- hatch adhesion and pH tests must be performed as per Australian Standard AS2311-Painting Buildings and AS1580-Methods of Testing Adhesion (current editions) prior to commencing full-scale works.
pH readings must be below 10 before coatings can be applied.

SDS Number	SDS Link
10858	**View SDS Link**

2nd Coat — Dulux 1 Step Prep Water Based Primer Sealer Undercoat

Coat Type	Datasheet
2nd Coat	**NZDU00432 Dulux 1 Step Prep Water Based Primer Sealer Undercoat**

Read the full Datasheet details at Dulux 1 Step Prep Water Based Primer Sealer Undercoat

Application Methods

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

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)			**14**
Wet Film Per Coat (microns)			**71**
Dry Film Per Coat (microns)			**31**
Recoat Time **	**2 Hours**		

V.O.C. Level	Meets ECNZ V.O.C. Requirements?
< 40g/L untinted	**Not Applicable**

Coating Application Details

Brush, roller, conventional or airless spray.
ROLLER: Using a medium nap roller apply a full even coat direct from the container and finish by light parallel strokes with a dry roller.
Stir contents thoroughly before and during use.
AIRLESS/CONVENTIONAL SPRAY: Suitable for application by all standard spray equipment. If necessary thin with up to 100ml per litre of water to aid atomisation.
BRUSH: Wet brushes with water prior to use to avoid clogging. Apply a full even coat direct from the container.
When painting exterior surfaces, ensure topcoat is applied no more than one week after application.

SDS Number	SDS Link
DLXNZLEN002997	**View SDS Link**

3rd Coat — Dulux Weathershield Low Sheen

Coat Type	Datasheet
3rd Coat	**NZDU00231 Dulux Weathershield Low Sheen**

Read the full Datasheet details at Dulux Weathershield Low Sheen

Application Methods

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

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	**16**	**16**	**16**
Wet Film Per Coat (microns)	**63**	**63**	**63**
Dry Film Per Coat (microns)	**24**	**24**	**24**
Recoat Time **	**2 Hours**	**Indefinite**	

V.O.C. Level	Meets ECNZ V.O.C. Requirements?
<45 g/L untinted	**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, conventional and airless spray

Within 1km of sea for Galvanised iron, Zincalume
Apply one coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield. Preparation/coating system can vary depending on the quality and conditions of pre-primed timber/fibre cement, Colorbond® & colorsteel® and tilt-up & precast concrete surfaces. For help and advice, please call Dulux Help & Advice on 0800 800 424 for specific guidance. Some colours may require more than the recommended number of coats to achieve full opacity. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), when painting over contrasting colour, apply 1 coat of Dulux 1Step prepcoat.

Steel/wrought iron
Apply 2 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

Bare surfaces including brick, masonry, fibre cement, Zincalume
Apply 3 coats of Weathershield.

Galvanised iron
Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), apply 1 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

For Zincalume/galvanised iron roofs
Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), apply 1 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

Bare unpainted timber
Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), for improved resistance to cracking on hardwoods (eg Mt Ash, Oak), apply a coat of Dulux 1Step Prep-coat prior to the application of two topcoats of Weathershield. Professional Painters refer to Duspec Specification Sheets to qualify for guarantee. Check the weather forecast. Do not paint on excessively cold or humid days. Exposure to rain or overnight dew whilst drying may result in the coating being damaged or removed. If painting during the hottest time of the day, cool the surface by hosing before painting and paint on the shady side of the house. Stir contents thoroughly before and during use with a broad flat stirrer, using an upward lifting action.

Brush/roller
Soak brush or roller in water before starting and use while still slightly damp. Thinning is usually not required.

Airless or conventional spray
Suitable for application by all standard spray equipment. Apply wet even coats. If necessary thin with up to 100 ml/litre water to aid atomisation. Under hot or very windy conditions, up to 100 ml/litre of Dulux Hot Weather Thinner may be added to ease application. On previously painted surfaces, apply 2 coats of Weathershield.

SDS Number	SDS Link
DLXNZLEN003376	**View SDS Link**

4th Coat — Dulux Weathershield Low Sheen

Coat Type	Datasheet
4th Coat	**NZDU00231 Dulux Weathershield Low Sheen**

Read the full Datasheet details at Dulux Weathershield Low Sheen

Application Methods

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

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	16	16	16

Wet Film Per Coat (microns)	63	63	63
Dry Film Per Coat (microns)	24	24	24
Recoat Time **	2 Hours	Indefinite	

V.O.C. Level
<45 g/L untinted

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, conventional and airless spray

Within 1km of sea for Galvanised iron, Zincalume
Apply one coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield. Preparation/coating system can vary depending on the quality and conditions of pre-primed timber/fibre cement, Colorbond® & colorsteel® and tilt-up & precast concrete surfaces. For help and advice, please call Dulux Help & Advice on 0800 800 424 for specific guidance. Some colours may require more than the recommended number of coats to achieve full opacity. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), when painting over contrasting colour, apply 1 coat of Dulux 1Step prepcoat.

Steel/wrought iron
Apply 2 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

Bare surfaces including brick, masonry, fibre cement, Zincalume
Apply 3 coats of Weathershield.

Galvanised iron
Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), apply 1 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

For Zincalume/galvanised iron roofs
Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), apply 1 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

Bare unpainted timber
Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), for improved resistance to cracking on hardwoods (eg Mt Ash, Oak), apply a coat of Dulux 1Step Prep-coat prior to the application of two topcoats of Weathershield. Professional Painters refer to Duspec Specification Sheets to qualify for guarantee. Check the weather forecast. Do not paint on excessively cold or humid days. Exposure to rain or overnight dew whilst drying may result in the coating being damaged or removed. If painting during the hottest time of the day, cool the surface by hosing before painting and paint on the shady side of the house. Stir contents thoroughly before and during use with a broad flat stirrer, using an upward lifting action.

Brush/roller
Soak brush or roller in water before starting and use while still slightly damp. Thinning is usually not required.

Airless or conventional spray
Suitable for application by all standard spray equipment. Apply wet even coats. If necessary thin with up to 100 ml/litre water to aid atomisation. Under hot or very windy conditions, up to 100 ml/litre of Dulux Hot Weather Thinner may be added to ease application. On previously painted surfaces, apply 2 coats of Weathershield.

SDS Number
DLXNZLEN003376

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.

Disclaimer

This Specification is copyright to DuluxGroup (Australia) Pty Ltd and/or DuluxGroup (New Zealand) Pty Ltd (collectively, 'Dulux'). It may not be varied or altered without the prior written consent of Dulux, and if it is, Dulux has no responsibility or liability for those variations.

Unless Dulux has provided you with a customised, project-specific specification, this Duspec+ document does not represent that any particular product or product system will be suitable for your project.

Any information provided in this Duspec+ is given in good faith and is believed by Dulux to be correct at the time of publication. Products and coating systems can be expected to perform as indicated in this Duspec+ document, provided the substrate is in good condition, the coatings are applied by a suitably experienced and skilled applicator, and the preparation, application and maintenance is followed strictly as set out in this Duspec+ document, and as recommended on the applicable Dulux Product Data Sheet and Safety Data Sheets for the relevant products (available from www.duspecplus.co.nz). Climatic conditions at application time can affect Duspec+ documentation suitability and product performance.

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.

Where any liability of Dulux in respect of this Specification cannot by law be excluded, Dulux's liability is limited, as permitted by law and at Dulux's option, to resupply of the relevant products or services or to reimbursing the cost of those products or services.

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.