NZMA00027 Maxiproof Maxiproof Matt on New Precast, Tilt-up and Off Form Concrete [Interior]

Description

Maxiproof Matt is an aliphatic interior/ exterior moisture-cured polyurethane finish coat with added UV absorbers. It is designed to produce a hardwearing, traffic tough finish that is UV, heat, scuff and scratch resistant. Maxiproof Matt is ideal for extreme, high-traffic commercial areas such as shopping malls, sports floors, boards, bars and cafes. Maxiproof Matt also provides a tough, clear finish for bench tops, furniture and joinery, especially if exposed to direct sunlight.

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 — Maxiproof Maxiproof Gloss
- 3rd Coat — Maxiproof Maxiproof Gloss
- 4th Coat — Maxiproof Maxiproof Matt

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 — Maxiproof Maxiproof Gloss

Coat Type	Datasheet
2nd Coat	NZMA00007 Maxiproof Maxiproof Gloss

Read the full Datasheet details at Maxiproof Maxiproof Gloss

Application Methods

Brush Roller Pad

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	12.1	8	8
Wet Film Per Coat (microns)	83	125	125
Dry Film Per Coat (microns)	32	48	48
Recoat Time **	8 Hours	Indefinite	

V.O.C. Level	Meets ECNZ V.O.C. Requirements?
562 g/L	Not Applicable

Coating Application Details

Applicator pad, brush or short-nap mohair roller.
Product may be applied by applicator pad, brush or short-nap mohair roller, however ensure care is taken to minimise air bubbles. Always lay off along the grain.Always work out of direct sunlight. Timber being coated should be dry and cool to the touch. Follow all other good coating practices.
IMPORTANT Minimise the exposure of Maxiproof Gloss to moisture in the air by ensuring that the container is sealed immediately after decanting a sufficient amount for immediate use. DO NOT return unused product to the original container.
For new builds, exposed timber should be coated on all faces, edges, and ends before being attached to the building framework. For timber end grain it is recommended to seal following the full product specification - 3 coats.
Stir thoroughly before and during use with a broad, flat stirrer to maintain a uniform solution.
Allow approximately 8 hours for 1st coat to dry. Lightly sand 1st coat. Apply 2nd and 3rd coats unthinned. Lightly sand between coats.
Maxiproof Gloss can be sprayed but application must be in accordance with spray-painting regulations. Forced air respirators are compulsory.

SDS Number	SDS Link
22836	View SDS Link

3rd Coat — Maxiproof Maxiproof Gloss

Coat Type	Datasheet
3rd Coat	NZMA00007 Maxiproof Maxiproof Gloss

Read the full Datasheet details at Maxiproof Maxiproof Gloss

Application Methods

Brush Roller Pad

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	12.1	8	8
Wet Film Per Coat (microns)	83	125	125

Dry Film Per Coat (microns)	32	48	48
Recoat Time **	8 Hours	Indefinite	

V.O.C. Level	Meets ECNZ V.O.C. Requirements?
562 g/L	Not Applicable

Coating Application Details

Applicator pad, brush or short-nap mohair roller.
Product may be applied by applicator pad, brush or short-nap mohair roller, however ensure care is taken to minimise air bubbles. Always lay off along the grain.Always work out of direct sunlight. Timber being coated should be dry and cool to the touch. Follow all other good coating practices.
IMPORTANT Minimise the exposure of Maxiproof Gloss to moisture in the air by ensuring that the container is sealed immediately after decanting a sufficient amount for immediate use. DO NOT return unused product to the original container.
For new builds, exposed timber should be coated on all faces, edges, and ends before being attached to the building framework. For timber end grain it is recommended to seal following the full product specification - 3 coats.
Stir thoroughly before and during use with a broad, flat stirrer to maintain a uniform solution.
Allow approximately 8 hours for 1st coat to dry. Lightly sand 1st coat. Apply 2nd and 3rd coats unthinned. Lightly sand between coats.
Maxiproof Gloss can be sprayed but application must be in accordance with spray-painting regulations. Forced air respirators are compulsory.

SDS Number	SDS Link
22836	View SDS Link

4th Coat — Maxiproof Maxiproof Matt

Coat Type	Datasheet
4th Coat	NZMA00006 Maxiproof Maxiproof Matt

Read the full Datasheet details at Maxiproof Maxiproof Matt

Application Methods

Brush Roller Pad

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)			8
Wet Film Per Coat (microns)			125
Dry Film Per Coat (microns)			41
Recoat Time **	8 Hours	Indefinite	

V.O.C. Level	Meets ECNZ V.O.C. Requirements?
708 g/L	Not Applicable

Coating Application Details

Applicator pad, brush or short-nap mohair roller.
IMPORTANT Minimise the exposure of Maxiproof Matt to moisture in the air by ensuring that the container is sealed immediately after decanting a sufficient amount for immediate use. DO NOT return unused product to the original container.
Machine shake, or shake vigorously by hand before decanting.
Maxiproof Matt is a special effect finish coating only, and must be applied onto surfaces prepared and coated with Maxiproof Gloss. Product may be applied by applicator pad, brush or short-nap mohair roller, however ensure care is taken to minimise air bubbles. Always lay off along the grain.
Allow approximately 8 hours for the previous coat of Maxiproof Gloss to dry, and lightly sand before applying Maxiproof Matt. If recoating Maxiproof Matt, a tie coat of Maxiproof Gloss must be applied to the well sanded Maxiproof Matt coating, before applying a fresh coat of Maxiproof Matt in the recommended recoat window.
Maxiproof Matt can be sprayed but application must be in accordance with spray-painting regulations. Forced air respirators are compulsory.

SDS Number	SDS Link
22837	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

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.