

Dulux AcraTex Cool Roof Membrane Next Generation with InfraCOOL Technology Gloss AUDA1471

Part A	194- Range	Image	
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Product Overview

DULUX AcraTex COOL ROOF Membrane with InfraCOOL Technology is a high build, pigmented, water based, 100% acrylic coating providing maximum SOLAR REFLECTANCE for optimum cooling benefit. Dulux Acratex Cool Roof is designed as a Radiant Heat barrier maximising Solar reflectance and specifically formulated for low dirt pickup in order to maintain solar reflectance properties.

- Features And Benefits**
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| <ul style="list-style-type: none"> • Water Based • Maximum Solar Reflectance • Low Dirt Pickup • High Build Membrane • Drinking water safe | <ul style="list-style-type: none"> • Same day recoat, easy clean up & low odour • Surface cooling effect / Cooling Energy Saving • Maintains reflectivity and cooling effect on aging • Long Term Durability • Especially formulated for safe collection of potable drinking water |
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Uses And Typical Specifications

Uses	DULUX AcraTex 962 Roof Membrane is used as a protective coating over properly prepared and sealed weathered concrete roof tiles and metal roofs. It provides a durable coating system that ensures high colour consistency, significantly improving washability, reducing dirt accumulation, pollution and chemical attack. DULUX AcraTex 962 Roof Membrane is recommended for recoating of weathered concrete roof tiles. It is NOT recommended for coating of terracotta tiles.
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Precautions And Limitations

Recommendations, permissible coverage rates & application temperature must be observed. DULUX AcraTex Cool Roof Membrane must not be applied when rain is anticipated. Adequate protection must be given against rain and dust to the coating during application.

The integrity of the coating system relies on thorough surface preparation and consolidation of the substrate. Where excessive chalking or friable concrete roof tiles are encountered, consolidation of the substrate is essential. Refer to appropriate DULUX AcraTex 962 Roof Membrane system specification. As the surface area of a profiled roof is greater than an equivalent flat surface, additional material should be allowed for.

All storm water pipes are to be disconnected from the house. No water wash down run off is to enter into the storm water. Follow all state legislations when working with heights.

To ensure colour uniformity and for optimum performance, Dulux recommend a full coating system including a MEMBRANE top coat. For ALL systems the Texture &/or Base Coat should be tinted in accordance with AcraTex Tint Guide to the specified top coat colour (or a colour as close as possible to the specified colour as product and tint rules allow). IMPORTANT: Not all colours are suitable for exterior use. This product data sheets is to be read in conjunction with DULUX specification. Ensure that you have adequate tinted stock to complete the job in one application. All material must be thoroughly cross-mix to ensure tint uniformity. It is recommended to hold a volume of finish material for future maintenance touch-ups

Practical spreading rates will vary from quoted theoretical figures depending on substrate porosity, surface roughness, overspray losses, application methods and environmental conditions (e.g. wind).

All preparation and painting must conform to AS2311: The Painting of Buildings
At Commencement of coating system application, to the substrate it shall be deemed that the Applicator has certified that the surface which the coating/s is to be applied to, is fit to receive the specified coating(s) system.

Do not apply paint if Relative Humidity is above 85% or temperature is within 3°C of Dew Point.
Do not apply if the surface temperature is greater than 40°C or below 10°C, or likely to fall below 10°C during the application or drying period.
Dry times apply to a single coat at recommended spread rate and at 25°C and 50% Relative Humidity
Allow longer times under cool, moist, or still conditions and or when applied at high film builds.
Protect from dew, rain and frost for 48 hours when apply at the recommended spread rate.
Avoid application in hot, windy conditions or on hot surfaces cool the surface by hosing with water and paint the cool damp surface.

Application techniques should be adjusted to achieve the recommended DFT and finishing standard.
To avoid "Picture Framing" of texture topcoats "wet on wet" cutting in & coating technique is recommended or apply multiple coats thinning the first coat.
When using Bright Reds, Oranges, Blues and Yellows or where very light (or dark) colours are applied over highly contrasting colours an extra coat maybe required.

The coastal area is considered a marine environment and as such salt potentially can shorten the life of the coating systems. Care needs to be taken to wash down all areas twice. Once to remove surface contaminants, and raise salts to the surface and then secondly to remove these salts. Due to the locality, weather conditions and lag time between applications of the coating system it may require the need to wash again, between coats.

When the Applicator is preparing the site sample for approval he should advise the Project Superintendent if the substrate condition is not of sufficient standard to produce the specified finish.

Where possible avoid dark colours - these will give rise to much higher surface temperature that may cause addition thermal stress and cooling demand to the building envelope and/ or require extra engineering considerations (greater building costs).

Consult Dulux on the potential to use InfraCOOL Heat Reflective Coatings.

A DULUX warranty can be provided on request, when the FULL AcraTex system including a membrane topcoat/s is applied by a DULUX AcraTex trained applicator, according to specification, & at the specified spreading rates, & to the surface preparation details described in the DULUX AcraTex Specification Manual.

The dynamics of the substrate is outside the control of Dulux Australia and as such joint deformation or cracking is excluded from warranty terms.

Colour change is a natural part of a coating weathering and is excluded from warranty terms

Refer warranty document for full terms and conditions.

Fungi and Algae can exist on virtually any surface (even glass) provided the right conditions for growth are met.

Visible growth on painted surfaces is typically caused by contaminants present together with the presence of high enough levels of moisture to support growth. Agents in paints become ineffective where they cannot "touch" the growth source (eg where growth emanates from deposits on the film).

Additionally the active agents are "consumed" in the process such that protection is time limited where conditions support ongoing growth performance is greatly improved with the inclusion of a membrane Top coat

The Roof coatings should be cleaned on a regular basis. This will help maintain your overall aesthetic appearance and preserve your AcraTex Texture coating system. Cleaning once every year will remove light soil as well as grime and airborne pollutants refer Dulux AcraTex Care & Maintenance Guide Roofs. Refer <http://www.dulux.com.au/media/1420675/roofingcaremaintenanceguide201411.pdf>

SURFACTANT LEACHING FROM EXTERIOR WATER-BASED COATINGS

Occasionally amber, clear or white spots/streaks are seen on a newly painted surface within the first few weeks after application. They usually appear after light rain or overnight dew and generally located in sheltered areas or areas with limited sun exposure. Under normal conditions surfactant contained in the tinted paint colour is slowly leached to the surface and washed away by rain leaving no trace and is a normal part of drying of any exterior water-based paint. Under certain atmospheric conditions and these surfactants leach or migrate to the paint surface, is concentrated forms and leaves clear or white deposits upon drying. These conditions include cool or humid weather or painting cold substrate and in most cases these marks on the wall surfaces are more noticeable on dark colours, such as browns or dark greens, etc..


The clear/white surfactants that have migrated to the wall surface areas will cause no down grading nor performance changes or long term durability concerns of the paint films integrity and unfortunately have become an appearance issue instead.

They easily removed from the paint film within a week or so of their appearance by washing with warm water & commercial grade detergent or via Nifti or Spray'n'Wipe followed by rinsing with fresh clean water.

Under severe conditions they may reappear once or twice until all the surfactant has been removed. It will be less noticeable each time, and can be removed in the same manner as before. Refer http://www.dulux.com.au/pdf/tech-advice/DLX_TECH_Leaching.pdf

Performance Guide

Weather	Excellent resistance	Salt	Excellent resistance
Heat Resistance	% TSR-Total Solar Refelactance (ASTM C1549) : Solar Absportance (ASTM E1980) : Reports available on request Emittance (ASTMC1371) : 0.90	Water	Less than 1 gram water transmission over 24 hours per metre squared under 1kPa pressure
Solvent	Resists dilute solvent	Abrasion	Good resistance
Acid	No reaction to 3% hydrochloric acid	Alkali	No reaction to 1% caustic solution

Typical Properties																											
V.O.C Content	< 65 g/L	Full Cure (25C, 50% R.H)	-																								
Clean Up	Clean up water Water																										
Meets GBCA VOC Requirement?	N/A																										
Application Method	 Air Spray																										
Application Conditions	<table border="0"> <thead> <tr> <th style="text-align: left;">Solids By Volume</th> <th style="text-align: center;">40</th> <th colspan="2"></th> </tr> <tr> <th></th> <th style="text-align: center;">Min</th> <th style="text-align: center;">Max</th> <th style="text-align: center;">Recommended</th> </tr> </thead> <tbody> <tr> <td>Wet Film Per Coat (microns)</td> <td style="text-align: center;">168</td> <td style="text-align: center;">200</td> <td style="text-align: center;">167.5</td> </tr> <tr> <td>Dry Film Per Coat (microns)</td> <td style="text-align: center;">67</td> <td style="text-align: center;">80</td> <td style="text-align: center;">67</td> </tr> <tr> <td>Recoat Time (min)</td> <td style="text-align: center;">2 hrs</td> <td style="text-align: center;">indefinite</td> <td></td> </tr> <tr> <td>Theoretical Spread Rate (m²/L)</td> <td style="text-align: center;">6</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> </tr> </tbody> </table>			Solids By Volume	40				Min	Max	Recommended	Wet Film Per Coat (microns)	168	200	167.5	Dry Film Per Coat (microns)	67	80	67	Recoat Time (min)	2 hrs	indefinite		Theoretical Spread Rate (m ² /L)	6	5	6
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Dulux Colour Base	DEEP, ULTRA DEEP																										

Application Guide	
Surface Preparation	<ul style="list-style-type: none"> Inspect roof tiles for condition. This will determine the required preparation. Replace any cracked, chipped or faulty tiles, and reset any displaced tiles as required. <p>Where required, remove ridge hips, gables & valleys, rebed and repoint appropriately. Substrate condition must be of consistent density/integrity and not subject to continual wetting or other conditions that may cause premature coating failure.</p> <p>Treat moss & lichen affected areas with a DULUX AcraTex 500/10 Prep Kleen. Allow to dry thoroughly prior to coating. Alternatively, apply a solution of 20 grams copper sulphate & 70 grams ammonium carbonate to 1 litre of water. Apply liberally and leave for 3-6 days.</p> <p>High pressure water blast concrete roof at a minimum of 1500 PSI to remove dirt, excess grime, lichen/moss and all other contaminants.</p> <p>Pressure wash roof area thoroughly after all preparatory work is completed and allow to thoroughly dry.</p> <p>Note: Ensure all down pipes or water connection points are disconnected prior to commencement of cleaning.</p>
Application Procedure And Equipment	<ul style="list-style-type: none"> Airless spray NOTE: As the surface area of a profiled roof is greater than an equivalent flat roof surface, additional material should be allowed for. Product should be thoroughly mixed before use. <p>Refer to the DULUX AcraTex Application Manual for detailed application instructions.</p> <p>The Roof Membrane system comprises of substrate cleaning and preparation, use of DULUX AcraTex Prep Treat to kill all moss and algal and lichen, consolidating sealer, followed by 2 coats (minimum) of DULUX AcraTex Roof Membrane.</p> <p>SEALER COAT Refer to DULUX AcraTex Roof Sealer or Roof Sealer WB datasheet</p> <p>ROOF MEMBRANE APPLICATION</p> <p>Apply the first coat of DULUX AcraTex Roof Membrane by airless spray in accordance with Roof Membrane Application Manual.</p> <p>Apply second coat of DULUX AcraTex Roof Membrane in accordance with Roof Membrane specification</p>

Health And Safety			
MSDS Number	DLX003088		
MSDS Link	https://go.lupinsys.com/duluxgroup/harms/public/materials/35f7010af1be44e6a8669efe41dc02ca-published/individual		
Health Effects	For detailed information refer to the product label and the current Material Safety data Sheet available through Dulux Sales and Customer Service Offices 13 25 25 AUS. For emergencies, please call Australia 1800 220 770 or New Zealand 0800 220 770. Ensure adequate ventilation. Take suitable safety precautions while preparing your surface or sanding a previously coated surface, including wearing an appropriate respiratory mask Hazardous respirable droplets may be formed when sprayed. Wear appropriate respiratory mask and do not breathe spray or mist	Flammability	Non Flammable
Personal	Avoid repeated or prolonged skin contact and inhaling spray mist. Use in well ventilated areas. Always use overalls, safety shoes, safety glasses and safety gloves. Wear appropriate respiratory mask and do not breathe spray or mist	Storage	Store out of direct Sunlight in a cool dry area
Disposal	DO NOT pour down drains. Refer local regulation for disposal of water based wastes.		
In the case of emergency, please call 1800 033 111			

Transport And Storage			
Pack A	194- Range	Shipment Name	Not dangerous goods
Size	15 Litre	Weight	20kg
Flash Point	N/A	UN Number	N/A
Dangerous Goods Class	N/A	Package Group	NA



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