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Date Issued:

7 February, 2022
LP0027

COOLIT CERAM COLOUR

Heat Reflective Coatings

Product Line: 11XX

Product Code: Where XX denotes actual colour code.

Description:

Coolit Ceram Colour heat reflective coatings offer a range of highly durable, selected topcoat colours for use on roofs where lowered roof temperatures due to better heat management are combined with appealing conventional roofing colours. The cutting-edge technology used in the Coolit Ceram Colours permits significantly lower heat ingress into roof cavities which is then transferred into the living/working spaces of homes. Dependent upon the colour selected, temperature reductions inside the living/ working areas can be up to 10°C cooler than with similar colours made using traditional roof coatings. The reduced heat influx through the roof cavity can then be translated into much reduced electricity demand for cooling interiors and also lowering green-house gas emissions through reduced electricity usage.

Features

- Highly durable pigments resulting in extended service life.
- Reduction in roof and roof cavity temperatures compared to conventional roof coatings prolonging life of the coating and the roof structure.
- Selected range of architectural colours to enhance contemporary appearance of homes/buildings. No further tinting of these colours is permitted as the characteristics of the coating will be degraded.
- Environmentally better alternative as significantly less green-house gases are generated with reduced power consumption of air-conditioners etc over the life of the coating.
- Low toxicity components used in these coatings making the coatings suitable for use on roofs used for the collection of tank water. See note on water tanks.
- Colour absorbs light and turns it into heat. Heat causes problems over time. Cool It Ceram Colour coatings have infra-red reflective technology that cut down the amount of light they absorb by reflecting infrared light back into the atmosphere instead of converting it to heat. Thus damage due to heat build up is significantly reduced.

Typical Specifications

Surface	Preparation	System	Dry Film Thickness
Structural Steel	Abrasive blast clean to AS1627.4 Class 2	First Coat: Coolit Ceram All Metal Primer Top Coat: 2 coats Coolit Ceram Colour	30 - 40µm 90 - 110µm*
Mild Steel	Remove rust, clean and degrease.	First Coat: Coolit Ceram All Metal Primer Top Coat: 2 coats Coolit Ceram Colour	30 - 40µm 90 - 110µm*
Galvanised and zinc coated steel and aluminium	Clean and degrease. Smooth and polished aluminium may need abrading with a nylon pad.	First Coat: Coolit Ceram All Metal Primer Top Coat: 2 coats Coolit Ceram Colour	30 - 40µm 90 - 110µm*
Colorbond® Roofs	High pressure wash 3000 psi minimum. Detergent wash then rinse thoroughly.	First Coat: Easi Spray Metal Primer White Top Coat: 2 coats Coolit Ceram Colour	30 - 40µm 90 - 110µm*
Tiled Roofs (Good condition)	High pressure wash 3000 psi minimum.	First Coat: Coolit Ceram Masonry Primer Top Coat: 2 coats Coolit Ceram Colour	30 - 40µm 90 - 110µm*

*Total Dry Film Thickness for 2 coats.



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For porous and rough tiles a third coat of the top coat is strongly recommended to achieve a total dry film thickness higher than 130µm to enhance durability and dirt resistance. Refer relevant Technical Data Sheet for each specific product mentioned above for details of usage. If your particular situation is not described above, please contact Luxury Paints for specific advice.

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Surface Preparation

The Coolit Ceram range is a coating consisting of one coat of primer and two coats of the selected Coolit Ceram Colour topcoat. It is only this system that will provide the longevity of the coating system combined with the reported heat reductions for these products. Omission of any coating or failure to apply the coatings at the recommended application rates will reduce the benefits and service life of these products.

Material repairs to roofs such as re-pointing of tiled roofs, replacement of cracked tiles, replacement of perforated sheets and fixing of gaps together with securing of loose sheeting is recommended prior to application of this coating system.

Ensure that all necessary repairs such as fixing of loose or missing roofing parts are remedied prior to cleaning and/or coating. Do not seal gaps, fasteners or fixtures with silicone sealants prior to painting as most paints do not adhere well to these sealants. If silicone sealant is to be used, then it must be used after the coating system has been applied. Existing silicone sealant must be totally removed prior to painting and re-applied after the coating system has been applied.

Surfaces must be clean, dry and free of all contamination including dirt, moss, lichen etc. High pressure water cleaning at a minimum of 3000psi pressure together with treatments for organic growths following the directions for use on the relevant commercial products must be diligently exercised in order to achieve long service life of these coatings. New Colorbond® roofing requires degreasing prior to coating. Where water tanks are connected to roofs which are to be cleaned or coated, these must be totally disconnected from the roof prior to commencement of cleaning and must remain disconnected until at least 12mm of rain has fallen on the roof after the coatings have dried. Please refer the document on roofs with connected tanks from Luxury Paints Pty Ltd.

After water blasting an adhesion test for the coating that remains or withstands the force will be good as water blasting may loosen up old paint that was intact before water blasting. Painting over such loosened-up paint will lead to failure.

Metal Roofs - Unpainted.

After attending to the above listed repairs/ preparation as appropriate, apply one coat of Coolit Ceram WB All Metal Primer by spray, brush or roller at a spreading rate of 10 – 12 square metres per litre. Allow a minimum of 4 hours for the primer to dry before application of the first coat of Coolit Ceram Colour topcoat at a spreading rate of 6 – 8 square metres per litre. The second coat of Coolit Ceram Colour topcoat can be applied at a spreading rate of 7 - 9 square metres per litre after a minimum of another 4 hours drying period.

Metal Roofs – Previously painted (Conventional Paint).

After attending to the above listed repairs/ preparation as appropriate and ensuring that all loose or flaking paint has been removed and sharp edges have been feather sanded, apply one coat of Coolit Ceram WB All Metal Primer by spray, brush or roller at a spreading rate of 10 – 12 square metres per litre. Allow a minimum of 4 hours for the primer to dry before application of the first coat of Coolit Ceram Colour topcoat at a spreading rate of 6 – 8 square metres per litre. The second coat of Coolit Ceram Colour topcoat can be applied at a spreading rate of 7 – 9 square metres per litre after a minimum of another 4 hours drying period.

Colorbond® Roofs

New

Contact Luxury Paints Pty Ltd for specific advice.



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Aged

Aged Colorbond® roofs can be in a variety of conditions depending on age, degree of chalking and proximity to marine and industrial areas.

In all cases, high pressure wash the roofs at a minimum of 2500 psi. Higher pressure at 3000 psi is preferred where possible to remove excessive chalking and organic growths. Degrease the roofs using a suitable detergent solution and rinse thoroughly. Allow roof to dry thoroughly. Please refer to roof info sheet for guidance on preparing areas where Colorbond coating has been totally removed.

Apply Easi Spray Metal Primer White to clean, dry Colorbond® roofs at 10 – 12 square metres per litre. Allow to dry overnight before applying the Coolit Ceram Colour topcoats.

Tiled roofs – concrete

After attending to the above listed repairs/ preparation as appropriate, apply one coat of Coolit Ceram Masonry Primer by spray, brush or roller at a spreading rate of 10 – 12 square metres per litre on smooth surfaces or approximately 4 – 6 square metres per litre on aged degraded surfaces. Rough, degraded surfaces will require back brushing or rolling of the wet spray applied primer to ensure penetration in all holes, crevices etc. Allow a minimum of 4 hours for the primer to dry before application of the first coat of Coolit Ceram Colour topcoat at a spreading rate of 6 – 8 square metres per litre. The second coat of Coolit Ceram Colour topcoat can be applied at a spreading rate of 7 – 9 square metres per litre after a minimum of another 4 hours drying period.

NOTE:

1. Do not apply coatings if rain is expected within 4 hours.
2. Substrate temperature must be at least 12°C at application and must remain above this temperature until the coating has dried.
3. Do not apply coatings where the substrate temperature is above 35°C, the air temperature is above 30°C, when wind is present or the substrate temperature is above 40°C.
4. Allowance to be made in the application spreading rate to allow for the roofing profile and porosity of the substrate.
5. New tiled roofs where glazing is still present or Colorbond® roofing less than 2 years old can be problematic and specific advice should be sought from Luxury Paints for a coating recommendation.

Coolit Ceram Colour can be used to paint walls which do suffer from heat conditions during the day. Contact Luxury Paints for a specific coating system for your application. Coolit Ceram colours are factory produced. Additional tinting from paint tinting machines is not permitted as tinting can negate any heat minimising characteristics of the coating.

Application

Stir contents of can thoroughly with a wide flat stirrer ensuring the bottom of the can is reached. Apply two full coats of Coolit Ceram Colour topcoat as directed above by brush, roller or spray at the recommended spreading rate over the appropriate Coolit Primer.

Brush/Roller

Prewet brushes and roller cover prior to use. Use a quality wide bristle brush, flow paint on generously and do not overspread. Alternatively, use a quality 12mm nap roller cover for best results. On rough surfaces, a 20mm nap roller will give better coverage but the finish may show more roller patterning.

Spray

Airless spray application is recommended. Recommend tip size is 0.38 – 0.48 mm (0.015 – 0.019”). If necessary Coolit Ceram Colour topcoat may be thinned slightly with water to assist application. If thinned, allowance must be made in the spreading rate to compensate for the added thinning.



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Approximate coverage

Covers approximately 6 – 8 square metres per litre per coat depending on the surface porosity and substrate profile.

Note: Allowances should be made for product losses due to the exposed application conditions and metal profiles. To determine actual roof measurements, multiply the linear roof length by 1.25 for profiled roof substrates and the roof width from edge to apex by 1.10 for low pitched roofs (less than 10°); 1.15 for steep pitched roofs (10 to 20°) and 1.40 for very steep roofs. To calculate the actual roof area to be covered, use the following equation:

Area = (Linear roof length X linear factor) X (Roof width X pitch roof factor)

Example: Profiled roof 10 metres long and measured 5 metres from edge to apex on low pitch roof.

Area = (10 x 1.25) X (5 X 1.10) = 68.75 square metres.

Drying Times

Approximate drying times at 25°C and 50% Relative Humidity.

Touch dry: 30 – 45 minutes

Recoat: minimum 4 hours.

Drying times may be extended by adverse drying conditions or high film builds.

Cleanup

Clean all equipment promptly with water. Dispose of washings in accordance with local council requirements.

Characteristics

Vehicle:	Pure acrylic
Gloss:	65 – 78 Gloss Units depending on colour.
Durability:	Excellent
VOC	Approximately 49 g/litre
Colour fading	Superior fade resistance due to IR reflective properties

Colour Range

Coolit Ceram Colour topcoat is available in a range of factory mixed decorator colours:

Recommended Coating Systems

High Value Premium System:

1 x coat Coolit Ceram Primer (choice determined by substrate) **

2 x coats Coolit Ceram Colour topcoat of desired colour.

** Two coats of Coolit Ceram Primer may be required on rough, pitted or highly porous substrates where a premium standard of finish presentation is required.

Additional Information

Coolit Ceram colours are factory produced. Additional tinting from paint tinting machines is not permitted as tinting can negate any heat minimising characteristics of the coating.

On previously coated roofs, it is advisable to check the existing coating adhesion to ensure that it is adequate for the new paint application and service life duration. If the existing coating withstands pressure cleaning at a minimum 2500 psi, then it has adequate adhesion for the purpose. If the paint coating does not withstand this cleaning, then the whole roof coating may need to be removed.

On metal roofs where rust or corrosion is present, the affected areas must be wire brushed off or mechanically removed and treated with a propriety rust treatment or a rust conversion product used according to package instructions prior to application of any coating system.

For further substrate preparation guidelines please refer to the ROOF COATING INFO SHEET for the relevant substrate.