

# COOLCOTE

## DESCRIPTION OF PRODUCT

COOLCOTE is a radiant heat barrier coating consisting of a high grade acrylic emulsion formulation and specialised pigments that when applied to roof substrates, reflects the sun's rays back into the atmosphere thus substantially lowering the temperature of the roof surface.

## GENERAL PRODUCT INFORMATION

- Appearance: The colour will generally be white and is a viscous but pourable consistency
- Packaging: 5 and 20l buckets and 200l drums
- Storage: Shelf life is 12 months in sealed and unopened containers. Product should be stored out of direct sunlight with temperature range between 5-35 degrees C.
- Specific Gravity: 1.20
- PH: 8,5
- Viscosity: 95-100 Ku

## AREAS OF USE

Coolcote is designed to be used on surfaces where there is a need to drastically reduce the amount of solar radiation in the form of heat and damaging UV wavelengths. The product is suitable for the following types of surfaces:

- Metal roofs both galvanised and previously coated.
- Tiled roofs.
- Waterproofing membranes (bitumen, shingles, acrylic, cementitious).
- Walls and cladding.
- Fibre or asbestos slates and sheets.

## PRODUCT FEATURES AND BENEFITS

- The use of a radiant heat barrier coating is the most effective method of reducing temperatures to inside spaces besides the use of an air conditioner.
- Besides Coolcote's extraordinary radiant heat barrier characteristics, it is an extremely tough and long lasting roof coating with excellent corrosion protection properties.
- The Coolcote substantially reduces the amount of thermal movement which occurs on all metal roofs. This helps prevent roof leaks, and reduces failure to fasteners, flashings and ridge cappings.
- The radiant heat barrier coating is only marginally more expensive than a conventional roof coating, but works out more cost effective in the long term due to superior longevity.
- Self priming formulation.
- A Coolcote treated roof can substantially reduce cooling costs and the resultant savings could quickly pay for the roof coating treatment.
- Cooler interior temperatures result in better productivity.
- Acid rain resistant.

- Fungus resistant.
- Abrasion resistant.
- The coating will not chalk, fade or yellow.

## LIMITATIONS

- The product is not suitable for surfaces which are subject to extended immersion in water (ponding)
- Do not apply if rain or dew is expected within 4 hours after application
- The product should not be applied to wet surfaces or when the ambient relative humidity is more than 82%. It is also recommended that the product not be applied when the ambient air temperature is close to dew point (within 2 degrees C) as condensation may occur on the surface being coated.
- The product is not suitable for use with a conventional (compressed) air sprayer
- Coolcote is not designed as an insulation coating, but works on the principles of reflectivity and emissivity.

## APPLICATION INSTRUCTIONS

- All surfaces should be dry, clean, sound and free of dust, dirt, grease, fungus, oil grease and rust.
- Bitumen surfaces can be overcoated, but the use of Aquagard Bondsolv Primer is required. Please contact the Aquagard consultant for advice.
- Oil or alkyd based coatings are not suitable for coating over and should be removed completely using vapour blasting method.
- Where roofs are rusted, this should be removed back to shiny metal using sand paper, wire brushing or vapour blasting. It is also recommended that on completion of the mechanical abrasion that Aquagard Rust and Etch Cleaner be applied, surfaces agitated and then thoroughly rinsed off, preferably with high pressure water jet cleaner.
- Galvanised metal surfaces should be treated using Aquagard Rust and Etch Cleaner as per instructions. New roofs may need to be treated twice. This should include applying the Rust and Etch Cleaner, thoroughly agitating with brushes or scouring pads and rinsing off with copious amounts of water



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or high pressure water jet.

- Existing paint layers can be coated over. But it is important to ensure that the existing coating is bonding sufficiently. All loose paint must be removed by means of scraping, wire brushing, grinding or best still vapour blasting method. Chalkiness must be removed from existing paint coatings as this can severely compromise the adhesion of the Coolcote. This is best achieved by applying Aquagard Rust and Etch Cleaner and then cleaning thoroughly with high pressure waterjet cleaner. If a white cloth or fingers are rubbed hard onto the surface, no chalky residue should wipe off. Where existing paint coating has failed completely it should be removed in entirety.
- The most reliable application method is airless spray. A Graco or similar machine with sufficient capacity is suitable. Tips of 517 and 519, are suitable depending on conditions.
- Brush or roller can be used, but generally only on smaller surfaces. 3-4 coats may be required to achieve full coverage depending on colour of existing surface. Ensure that brush grade is ordered when using this application method.
- The product should be thoroughly stirred before application. A flat wooden paddle or low speed mechanical mixer on a drill can be used.
- It is neither necessary or recommended to add water or thin the Coolcote.
- Range of surface temperature suitable for application is

between 5-40 degrees °C.

- Cleaning of tools and machines to be done with water.
- Touch dry time is generally within 30 minutes. Hard dry is within 4-6 hours at 25 degrees °C. Full cure is attained after 7 days.

#### DISCLAIMER

Whilst Aquagard makes every effort to ensure that all information given is accurate, the use and application of our products is outside our direct or continuous control, therefore Aquagard cannot accept any direct or indirect liability arising from the use of our products. Aquagard is able to supply a manufacturers guarantee on request. Please contact the Aquagard consultant for further information.

#### HEALTH AND SAFETY

Please read the product label, technical data sheet and material safety data sheet before use. Do not ingest internally. Avoid contact with eyes. If solution does come into contact with eyes, flush immediately with water and refer to Doctor for medical attention. Avoid prolonged contact with skin or breathing in of mist or fumes. Wear a suitable face mask. Keep out of reach of children. Take due care and precaution when applying the product especially if working at heights.



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