



RCT SUPERFLECT TECHNICAL DATASHEET

PRODUCT DESCRIPTION

RCT SUPERFLECT Radiant Heat Barrier Coating is formulated with specialised, high quality pigments designed to reflect over two thirds of the ENTIRE range of solar radiation that reaches the Earth's surface. Radiation that is absorbed by the coating is disposed of by the product's inherently high emissivity. Due to the superior surface finish and quality of the formulation, SuperFlect can be expected to retain its effectiveness over many years of service.

SUPERFLECT is an extremely tough, self cross-linking water based emulsion of high quality resins and plasticizers for superior adhesion and longevity. It dries to yield a tough, smooth, waterproof surface with exceptional abrasion resistance, UV and mildew resistance.

USES

The product is intended to be used on roofs and other suitable surfaces exposed to direct sunlight where there is a need to drastically reduce the absorption by the surface of solar radiation in the form of heat and damaging UV wavelengths. The primary mode of operation is the reflection of incoming radiation back into the atmosphere. The secondary mode of operation is the re-radiation of absorbed heat back into the atmosphere and surroundings.

Please note that the product is not intended to perform as insulation in the traditional sense as it does not effectively reduce heat flux across the thickness of the coating any more than a normal coat of paint would. Rather, it is intended to prevent the build-up of heat from the sun on the outer surface of the roof (or other surface) to which it is applied.

The product can be applied to the following surfaces with correct preparation and priming as recommended by our technical department:

- Galvanised iron.
- Aluminium.
- Chromadek (pre-coated) sheeting.
- Previously coated surfaces.
- Concrete and fibre cement products.
- Exterior walls (plastered and concrete).
- Existing waterproofing membranes.

TYPE	: Acrylic				
COLOURS	: White				
APPEARANCE	: Satin Sheen				
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DRYING TIME	Temperature	5°C	10°C	20°C	30°C
	Surface dry	2hrs	1hr	1/2hr	1/2hr
	Hard dry	9hrs	8hrs	6hrs	4hrs
VOLUME SOLIDS	: 32%				
THEORETICAL SPREAD RATE	: 2.7m ² per litre				
RECOMMENDED FINAL THICKNESS	: 120µm Dry Film Thickness				
NUMBER OF COATS	: Minimum 2 coats at 188µm Wet Film Thickness (60µm Dry Film Thickness) per coat				
RECOAT TIME	: Overnight				
APPLICATION CONDITIONS	: Surface and ambient air temperature between 5°C and 40°C				
	: Surface and ambient air temperature minimum 2°C above dew point				
	: Ambient air relative humidity less than 82%				
PACKAGING	: 20litre plastic drum				
CLEANING	: Water				

PROPERTIES

- Quick drying
- Easy to apply by brush, roller or airless spray.
- Water based for easy clean-up.
- VOC compliant and non-toxic.
- Does not chalk, fade or yellow.
- Acid rain resistant.
- Mildew resistant.
- Abrasion resistant.
- High film build for extended lifespan.
- Ideal for duplex coating systems.
- Non-flammable.

PREPARATION

- All surfaces to be clean, sound and free of dust, oil, grease, organic growth and dirt.
- New galvanised iron surfaces to be thoroughly scrubbed clean and degreased with a suitable, good quality galvanised iron cleaner using a hard bristled broom or scouring pad. Rinse with potable water to a water break free surface (water running over the surface forms a continuous film). Repeat the cleaning process if necessary until a water break free surface is obtained. Allow to dry and prime with RCT Anti-Rust Metal Primer.

- Weathered, previously unpainted galvanised iron to be thoroughly cleaned with a suitable, good quality galvanised iron cleaner using a hard bristled broom or scouring pad. Rinse with potable water to a water break free surface (water running over the surface forms a continuous film). Repeat the cleaning process if necessary until a water break free surface is obtained. Prior to cleaning: Any areas of red rust are to be sanded down until no loose rust is present and bright metal lines are visible. Areas of powdery white rust not removed during the initial cleaning process are to be sanded down until a stable surface is obtained and the relevant areas cleaned again. Allow to dry and prime with RCT Anti-Rust Metal Primer.
- Previously painted surfaces are to be thoroughly cleaned with a suitable, good quality, general-purpose cleaner/degreaser until all dirt, debris, and oil is completely removed. Any powdery, loose and flaking paint must be removed and all sharp edges feathered. Surfaces to be washed down. Rinse with potable water to a water break free surface (water running over the surface forms a continuous film). Repeat the cleaning process if necessary until a water break free surface is obtained. Prior to cleaning: Any areas of red rust are to be sanded down until no loose rust is present and bright metal lines are visible. Rusted areas treated in this fashion are to be spot primed with RCT Anti-Rust Metal Primer, or a compatible anti-rust primer.
- If the surface to be coated is not directly compatible with SuperFlect (such as bitumen based coatings or new alkyd coatings), such surfaces can generally be sealed with RCT Epoxy Bond Primer prior to the application of SuperFlect. Please contact our technical department for specific information regarding your application.
- In the case of very smooth or glossy surfaces it is recommended that the surface be lightly abraded to form a key for the new coating.

Please note that this information is given as a guide only – please contact our technical department for specific information on preparation and product compatibility if in doubt.

APPLICATION

SUPERFLECT Radiant Heat Barrier Coating is suitable for application as follows (in order of preference):

- Airless spray: Tip range 0.015in to 0.019in (0.33mm to 0.48mm) with recommended tip 517. For ease of application and to avoid shadowing, the product is best applied in two coats of 188µm WFT (Wet Film Thickness) per coat to achieve a final dry film thickness of 120µm after the two coats have been applied.
- Brush: Application by brush is suitable for coating of small areas only. Several coats may be required to achieve the specified coating thickness.
- Roller: Application by roller is suitable for coating of small areas only. Several coats may be required to achieve the specified coating thickness.
- The product is not suitable for conventional (compressed air) spraying due to the thinning required.

APPLICATION CONDITIONS

- The product must be thoroughly mixed prior to application with a plunger or flat paddle. Straining is recommended for airless spray applications.
- The product should not be thinned. If absolutely necessary the product can be thinned by no more than 5% by volume with clean, potable water.
- The product must only be applied to surfaces that are between 5°C and 40°C.
- The product must not be applied to wet surfaces or when the ambient relative humidity is more than 82%. It is recommended that the product not be applied when the ambient air temperature is close to dew point (within 2°C) as condensation may occur on the surface being coated.
- Do not apply if there is a chance of rainfall within 4 hours of completing the application.
- This product is not suitable for application to surfaces that experience extended submersion (ponding).
- Always attempt to use the same batch of product to coat a surface as there may be a slight colour difference between batches. Batches can be intermixed if required.
- Cleanup with water.
- The product can be stored in its original, unopened container for up to 1 year in a cool place out of direct sunlight. Do not allow the product to freeze.

Please contact our technical department for more details

CARE

Take care when cleaning a newly coated surface. Allow 16 hours to dry thoroughly and 7 days to cure to full strength. Do not clean the surface within 7 days of application. To clean use a clean, soft cloth and mild soap solution. Rinse with clean water. Use a clean cloth to dry the surface if required. Annual cleaning is recommended to ensure continued performance of the product.

CAUTIONS AND WARNINGS

Do not take internally. Avoid contact with eyes. If solution does come in contact with eyes, flush immediately with water and contact physician for medical attention. Avoid prolonged contact with skin or breathing of spray mist. Wear a suitable face mask when spraying. **KEEP OUT OF REACH OF CHILDREN. REFER TO THE MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.**

The information contained herein relates only to the specific material identified.
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