

PRODUCT DATA SHEET



GLOBAL HRC

Heat Reflective Coating

GLOBAL HRC is an innovative water based heat reflective coating formulated from acrylic polymers for maximum heat reflectivity and durability. The coating is an ideal primary heat barrier when applied to external surfaces such as roofs, walls of buildings, storage facilities and enclosures. The major application of Global HRC is in the reduction of internal temperatures (and an associated reduction in internal pressure) of the bulk grain storages of the various state grain handling authorities such as Co-operative Bulk Handling Ltd in Western Australia, Grain Corporation of new South Wales, Victoria and Queensland. In this extremely harsh environment, Global HRC has proven its superb durability, low chalking rate, dirt pick up resistance and UV tolerance, whilst reducing internal temperatures within these storages by between 10°C and 15°C. In order to achieve maximum heat reflectivity Global HRC is produced in brilliant white only. The product can be tinted to a wide range of colours for use wherever a high performance decorative or protective coating is required; however, the heat reflective properties diminish acutely with the introduction of colour. This easily applied coating has specific adhesion properties for application to galvanized steel, concrete and masonry.

Physical Characteristics

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| Product type | Solvent-free dispersion of modified acrylic resins with mineral fillers and lightfast pigments |
| Appearance | Viscous liquid. White, may be coloured |
| Viscosity@25°C | 4000-5000 mPa |
| Density @ 25°C | 1.25Kg/Lt |
| pH | >9.0 |
| Solids | Approximately 52% by weight |
| Application Rate | Approximately 6m ² /Lt @ 50 microns D.F.T Recommended 2.0-2.5m ² /Lt to achieve 150micron D.F.T |
| Film Appearance | Low Sheen |
| Susceptibility to Frost | Avoid freezing conditions. Store above +2°C |
| Storage Stability | 2 Years or more in suitable conditions (18°C to 50 °C) |
| Cleaning Agent | Water |
| Danger Classification | Not Applicable. Non Hazardous. |

Application Information

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| Surface Preparation | Surface must be clean, stable and free of oil and grease. Loose particles should be removed and repairs carried out if required. Unweathered metal or powdercoated surfaces should be sealed with an approved sealer/primer |
| Application Conditions | Do not apply if the ambient temperature is below 10°C or during rain or if the temperature of the surface may fall below 10°C during the drying period. Do not apply when ambient and substrate temperatures are above 38°C. Do not apply if the relative humidity is above 85% or if dew point is likely to be reached during the drying period. |
| Application Process | By brush or paint roller. Sprayable with airless spray equipment at 5 bar pressure and minimum 0.21mm to 0.30mm nozzle size. |
| Application Rate | Approximately 6m ² /Lt @ 50 microns D.F.T Recommended 2.0-2.5m ² /Lt to achieve 150 microns D.F.T. This should be applied in two or more coats |
| Drying | Will vary with air temperature, humidity and air circulation. In normal conditions, may be touch dry in 1 to 3 hours (depending on thickness of application) and near fully cured within 24 hours. Under adverse conditions, drying will be impaired and in extreme instances, may even not be possible. |

Equipment Cleanup:

Wash all equipment thoroughly with water.

Safety Precautions:

Avoid ingestion and contact with skin or eyes. Wear protective goggles and waterproof gloves.

Pack Sizes:

20 litres, 200 litres, 1000 litres

Contact Point

For further information and technical assistance please contact:

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