# RONASS HEAT-RESISTANT COATING (UP TO 650°C)

RTB-586-R

Special Silicone-based heat-resistant coating with excellent adhesion and heat resistant properties.

## USES AND SUITABALE PRIMERS

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| Recommended Uses | Intermediate and finish coat in heat-resistant protective coating systems which are subjected to high thermal stresses up to 550°C. |
| Suitable Primers | Zinc Silicate primers, Zinc Silicone primers,RTB-909 Ronass or other heat-resistant primers. |

## CHEMICAL COMPOSITION

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|---|---|---|---|---|---|
| Type of Binder | Special Pure Silicone Resin | Solid Content | White Aluminum | Pure White | Signal Black |
| Number of Component(s) | 1 Component | By Weight | 55 ± 1% | 70 ± 1% | 65 ± 1% |
| Curing Mechanism | Thermosetting | By Volume | 42 ± 1% | 48 ± 2% | 48 ± 2% |
| Flash Point | 20°C (68°F) | | | | |

## PHYSICAL PROPERTIES

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|---|---|
| Finish | Semi gloss |
| Colour | White Aluminum (RAL-9006), Pure White (RAL-9010), Signal Black (RAL-9004) |
| Specific Gravity | 1.10 ± 0.05 gr/cm³ (White Aluminum) \| 1.45 ± 0.05 gr/cm³ (Pure White) \| 1.35 ± 0.05 gr/cm³ (Signal Black) |
| Heat Resistance | Continuous Service: 550°C<br>Non-Continuous Service: 650°C<br>*Please note that this coating's colour and Gloss may changed when subjected to high temperatures. These minor changes do not effect the resistance and anti corrosive characteristics of the coating paint film. |

## APPLICATION DETAILS

Surface Preparation: All oil, grease, dirt and other contaminants must be removed from the surface. Sandblast according to Swedish Standard (SIS 5900). Sa 2 ½ and priming with RTB-1222-R (Ronass Inorganic Zinc Primer), RTB-585 (Ronass Heat-Resistant Primer), or RTB-909 (Ronass Heat-Resistant Primer) is recommended.

Theoretical Consumption: 90-120 gr/m² @ 40 Microns DFT

Paint Application

| Methods | Airless Spray | Air Spray |
|---|---|---|
| Nozzle Size | 0.009" – 0.011" | 1.60 mm/1.80 mm |
| Pump Ratio | 1 / 28 | --- |
| Air Pressure | 4 – 6 Bar | 3 – 4 Bar |
| Thinning | 5 – 10% T-587 | 10 – 20% T-587 |

Film Thickness

| | White Aluminum | Pure White | Signal Black |
|---|---|---|---|
| Wet Film Thickness (µm) | 60 – 80 | 80 – 100 | 80 – 100 |
| Dry Film Thickness (µm) | 30 – 40 | 40 – 50 | 40 – 50 |

Drying Time@25°C

| Dust Free Time | Dry to Handle | Recoating Interval |
|---|---|---|
| 10 – 20 Minutes | Optimum mechanical resistances are only ensured after exposure to approximately 200°C for at least 1 hour | Min. 24 Hours<br>Max * |

*Drying time calculated at 25°C according to ASTM test method D-1640 for 100 µm WFT*

**Please note that once Heat-Resistant coatings have been exposed to service conditions, prior to paint application, surface preparation including cleaning, degreasing, and gentle scrubbing with a suitable sandpaper is recommended.*

Application Limits

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|---|---|---|
| Relative Humidity | Min. --- | Max. 80% |
| Temperature | Min. +5°C | Max. +40°C |
| Substrate Temperature* | Min. +5°C | Max. +45°C |

*Please note that the substrate temperature should be at least 5°C above the dew point*

Recommendations:
-Should the recoating interval have expired, please refer to the procedures outlined in the Ronass Instruction Leaflet.
-Clean tools thoroughly before and immediately after use with cleaning solvent T-111 or T-587.

## PACKING, STORAGE AND SAFETY

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| Packing | 10 Litres Containers (10 kgs. Net)and 6 Litres Containers (5 kgs .Net) and 20 Litres Containers (20 kgs. Net) |
| Storage Conditions | To be stored in cool and dry conditions in original sealed containers. |
| Shelf Life | At least 18 months after delivery in original sealed containers and proper storage conditions with temperature of 25°C. |
| Safety | This product contains organic solvents and flammable materials. Keep away from sparks, fires, electrical cables and equipments, direct sunshine and out of children's reach.<br>Protect skin, eyes, and avoid prolonged breathing of solvent vapor during application. Use with adequate ventilation. |