TEMPERATURE INDICATIVE COATING
RTB-1330

Special one-component silicone-based, temperature indicative coating with visual colour change in response to increases in temperature.

USES AND SUITABALE PRIMERS

Recommended Uses	Finish coat for reaction vessels, boilers, furnaces, rotary kilns and steel structures which are working in a specified thermal zone or protected by an interior insulation system. This coating can identify hot spots and internal insulation failures through irreversible colour change from luminous orange to sand yellow at temperatures between 270-320°C.
Suitable Primers	Zinc silicate primer or other heat-resistant primers or coatings, preferably white or light colour shades.

CHEMICAL COMPOSITION

Type of Binder	Modified Silicone Resin	Solid Content	65 ± 1% By Weight
Number of Component(s)	1 Component		50 ± 2% By Volume
Curing Mechanism	Thermosetting	Flash Point	20°C (68°F)

PHYSICAL PROPERTIES

Finish	Semi flat
Colour	Luminous Orange (RAL-2005)
Specific Gravity	1.20 ± 0.05 gr/cm³
Heat Resistance	Max. 400°C
Thermal Range	270°C – 320°C
	**The colour of the coating will gradually change to light brown at temperatures higher than 320°C.*

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 treatment with a heat-resistant primer such as RTB-585 (Ronass Heat-Resistant Primer), RTB-909 (Ronass Heat-Resistant Primer), RTB-1222-R (Ronass Inorganic Zinc Primer) or RTB-766-R (Ronass Inorganic Zinc Primer) is recommended.

Theoretical Consumption: 60 gr/m² @ 25 Microns DFT

Paint Application

Methods	Airless Spray	Air Spray	Brush	Roller
Nozzle Size	0.009" – 0.013"	1.80 mm	---	---
Pump Ratio	1 / 45	---	---	---
Air Pressure	3 – 5 Bar	3 – 5 Bar	---	---
Thinning	5 – 10% T-587	10 – 20% T-587	3 – 5% T-587	3 – 5% T-587

Film Thickness

	Recommended	Minimum	Maximum
Wet Film Thickness (µm)	50	30	80
Dry Film Thickness (µm)	25	15	40

Drying Time@25°C

Dust Free Time	Dry to Handle	Recoating Interval
3 – 5 Hours	Optimum mechanical resistances are only ensured after exposure to approximately 200°C for at least 1 hour	Min. 24 Hours 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

Relative Humidity	Min. ---	Max. 80%
Temperature	Min. +5°C	Max. +35°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

Packing	20 Litres Containers (25 kgs. Net)
Storage Conditions	To be stored in cool and dry conditions in original sealed containers.
Shelf Life	At least 12 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. Protect skin, eyes, and avoid prolonged breathing of solvent vapor during application. Use with adequate ventilation.