



Technical Data Sheet HEAT RESISTING ALLUMINIUM PAINT 250_600

Scope

High performance aluminium coatings based on silicone resin for protection of steel at elevated temperatures between 250°C and 600°C.

We offer three different qualities of Lumeros depending on temperature ranges.

Uses

Furnace equipment, reaction vessels, hot metal stacks, kilns, flues, exhaust systems, hot pipes and similar areas exposed to dry heat attack.

Product Data

Type	:	Single pack
Composition	:	Silicone resin and aluminium
Application	:	Brush and conventional spray
Recommended DFT	:	15-20 microns per coat
Theoretical Spreading Rate	:	HR/47 & HR/123 - 7.0-9.0 Sq.Mtr./Ltr. HR/143 - 16.0-21.0 Sq.Mtr./Ltr.
Drying Time	:	TOUCH: 3-4hour

Curing: After application of the final coat of Lumeros HR Aluminium, allow the system to air dry for minimum 24hrs. under ambient conditions. The temperature is then to be gradually increased to the working temperature range for obtaining optimum performance.

Overcoating Interval :

Min	:	Overnight
Rash Point	:	Above 25°C
Colour	:	Aluminium
Packing	:	20 Ltrs. and 4 Ltrs.
Thinner / Cleaner	:	Thinner
Finish	:	Bright Metallic

Storage Life: Up to twelve months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

Resistance Guide

Chemical Resistance

Exposures	Splash and spillage	Mild Fumes/ Outdoor Resistance
Acids	Fair	Good
Alkalis	Fair	Good
Solvents	Poor	Good
Salt	Good	Very Good
Water	Excellent	Excellent

Temperature Resistance :

Continuous	HR: 250-400°C
	HR: 400-500°C
	HR: 500-600°C

Weatherability : Excellent

Flexibility : Moderate

Abrasion Resistance : Moderate



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Surface Preparation

Remove grease, oil and other contaminants preferably by using Degreasing Solvent. Blast clean to a minimum of Sa 2 1/2 Swedish Standard SIS 05 5900 with a surface profile not exceeding 65 microns.

If blasting is not practical, make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to St. 2 Swedish Standard SIS 05 5900. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces.

The surface should be clean and dry before application of HR Aluminium Paint.

Application

Stir thoroughly before and occasionally during use.

Brush : Apply without thinning to the recommended thickness.

Conventional spray: Add maximum upto 5% Thinner depending on conditions. Use any suitable standard equipment at an atomising pressure of 2.8-3.5 Kg/cm².

Notes

1. Application must be carried out on cold surface only. After the final coat has dried completely, the painted surface may be gradually heated.
2. Do not apply when temperature falls below 10°C or rises above 50°C and when relative humidity rises above 90%. Do not apply during rain fog or mist.
3. For heat resistance upto 400°C, primer coat which is to be applied on blast cleaned surfaces.
4. Painted components should not be handled without heat curing.
5. It is preferable to measure the actual skin temperature for selecting the right quality of HR Paint Coating.

Health & Safety : Please refer to the separate safety data sheet available with detailed information.

Disclaimer:

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