



Technical Data Sheet

HEAT RESISTING SILICONE ALLUMINIUM PAINT

Scope

An aluminium heat resisting coating based on silicone for superior protection of steel at high temperature.

Uses

The product can be used for long term protection of heated pipelines, exhaust pipes, smoke stacks and other surfaces operating at elevated temperatures.

Product Data

Type	:	Single pack
Composition	:	Silicone resin and aluminium
Application	:	Brush and conventional spray
Recommended DFT	:	20-25 microns per coat
Theoretical Spreading Rate	:	10-12.5 Sq. Mtr./Ltr.
Drying Time	:	TOUCH: 3-4 hour

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

Overcoating Interval :

Min	:	Overnight
Flash Point	:	Above 25°C
Colour	:	Aluminium
Packing	:	20 Ltrs.
Thinner / Cleaner	:	Thinner
Finish	:	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 : 250-500°C Dry Heat

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 Silicone Aluminium Coating.

Application

Stir thoroughly before and occasionally during use.

Brush/Roller : 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 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.

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

Disclaimer:

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