BERGER Protecton PROTECTIVE COATINGS

Lumeros Heat Resisting Aluminium Paints

USES

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

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 – HR/47, 123HR & HR/143

PRODUCT DATA

Type : Single Pack

Composition : Silicone resin and aluminium

Application : Brush or Conventional Spray

Recommended DFT : 15–20 microns per coat

Theoretical Spreading Rate :

HR/47 & 123 HR : 7.0 – 9.0 Sq. Mtr/Ltr
HR/143 : 16.0 – 21.0 Sq. Mtr/Ltr

Drying Time :

TOUCH : 3–4 hours

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

Overcoating Interval :

MIN : Overnight

Flash Point : Above 25° C

Colour : Aluminium

Packing : 20 Ltrs. and 4 Ltrs.

Thinner/Cleaner : Thinner 853

Finish : Bright Metallic

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

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURE	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/47 : 250–400° C
123 HR : 250–500° C
HR/143 : 400–600° C

Weatherability : Moderate with proper undercoat

Flexibility : Moderate

Abrasion Resistance : Moderate

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SURFACE PREPARATION

Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Blast clean to a minimum of Sa 21/2 Swedish Standard SIS 05 5900 with a surface profile not exceeding 35–40 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 the appropriate primer or 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 853 depending on conditions. Use any suitable standard equipment at an atomising pressure of 2.8 – 3.5 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat
Steel (250° – 400° C)	Zinc Anode 304	Lumeros HR/47	Lumeros HR/47
-do-	Lumeros HR/47	-do-	–
Steel (250° – 500° C)	Lumeros 123 HR	Lumeros 123 HR	–
Steel (400° – 600° C)	Lumeros HR/143	Lumeros HR/143	–

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, Zinc Anode 304 can act as a primer coat which is to be applied on blast cleaned surfaces.
4. It is preferable to measure the actual skin temperature for selecting the right quality of Lumeros HR Paint Coating.

Health & Safety : Please refer to the Separate Safety Data sheet available with detailed information.

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