



BERGER **Protecton** PROTECTIVE COATINGS

Lumeros 123 HR Aluminium

USES

Suitable for use on hot metal stacks, furnace equipment, kiln flues, exhaust systems, hot pipes and similar areas exposed to dry heat attack.

SCOPE

A protective coating designed for use in areas where heat resistance is required at a wide range from 250- 500 degree centigrade. It is recommended for application over Zinc Primer.

PRODUCT DATA

Type : Single Pack

Composition : Silicone resin with aluminium

Application : Brush or Conventional Spray

Recommended DFT : 20- 25 microns per coat

Corresponding WFT : 80- 100 microns per coat

Theoretical Spreading Rate : 10- 12.5 sq.mtr/ltr/coat

Drying Time :

TOUCH : 3-4 hours

HARD : Overnight

Curing Time : After application of final coat allow the system to dry insitu.

Overcoating Interval :

MIN : 24 Hours

Flash Point : Above 25° C

Colour : Aluminium

Finish : Bright Metallic

Packing : 20 Ltrs

Thinner/Cleaner : Thinner 853

Storage Life : Upto six 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 & SPILLAGE	MILD FUMES / OUT DOOR RESISTANCE
Acids	Good	Good
Alkalis	Fair	Good
Solvents	Poor	Fair
Salt	Good	Very Good
Water	Good	Excellent

Temperature Resistance :

Continuous : 250 to 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 Bison Degreasing Solvent. Blast Clean to a minimum of Sa 2.5 Swedish Std. SIS 05 5900 with a surface profile not exceeding 35 - 40 mic for Zinc Silicate Primer application and 25 - 30 mic for direct application of Lumeros 37 on blasted steel.

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 / St3 Swedish Standard SIS 05 5900. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces.

The metal or primed surface should be clean and dry before application of Lumeros 123 HR Aluminium. Blasting is a must if applied over Inorganic Zinc Silicate Coating.

APPLICATION

Mix the contents thoroughly before and during use.

Brush : Apply without thinning to recommended thickness.

Conventional Spray : Add upto 3% Thinner 853, depending on conditions. Use any standard equipment at an atomizing pressure of 2.8 - 3.5 Kg/Cm2

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat
Steel	250-500°C Zinc Anode 304 or Epilux 4 Z/R Primer	Lumeros 123 HR Aluminium	Lumeros 123 HR Aluminium
-DO-	250-500°C Lumeros 123 HR Aluminium	Lumeros 123 HR Aluminium	Lumeros 123 HR Aluminium
-DO-	above 400°C Lumeros 123 HR Aluminium	Lumeros 123 HR Aluminium	Lumeros 123 HR Aluminium

Notes :

1. 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.
2. Addition of Thinner in paint is normally not advisable.
3. Brushes and spray equipment should be cleaned with Thinner 853 otherwise equipment is likely to be damaged.
4. The coating has to be air dried for a min. of 24 Hrs, before putting into service at elevated temperature.

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information.

DISCLAIMER

The information contained within this Data Sheet is based on information believed to be reliable at the time of its preparation. The Company will not be liable for loss or damage howsoever caused including liability for negligence, which may be suffered by the user of the data contained herein. It is the users' responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No guarantee of results is implied since conditions of use are beyond our control.

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BERGER PAINTS INDIA LIMITED Berger House, 129 Park Street, Kolkata 700017

Phone : (033) 2229 9724 (5 lines) / 249 9754 (4 lines) **Fax :** 91-33-2249 9729 / 2249 9009

Email : NORTH : protectondelhi@sify.com **SOUTH :** bpil_ch2@sify.com

EAST : bpil_cl1@vsnl.net **WEST :** bpil_mum_prot@mtnl.net.in