



BR Thermolite Aluminium

USES

A direct to metal coating, recommended for use on structural steel, pipelines, exhaust pipes, smoke stack etc. for operational temperatures up to 660°C dry heat .

SCOPE

An inert polymeric matrix with aluminium flakes meant for protection of steel surfaces subjected to wet and dry heat cycles as well in cryogenic conditions up to -196°C. The coating is unique as it serves the dual purpose of heat and corrosion resistance and is suitable for application in both new construction and maintenance stages.

PRODUCT DATA

Type : Two pack system suitably cured

Composition : Inert polymeric matrix coating with aluminium pigments.

Volume Solids: 60 ± 2%

Mixing Ratio : Base : Catalyst : 19: 1 by volume.

Pot Life : 2 hours at 27±2°C

Application : Brush or Spray

Recommended DFT : 75 to 125 µ /coat

Recommended WFT: 125 to 208 µ /coat

Theoretical Spreading Rate : 4.8 to 8.0 m² / ltr

Drying Time :

TOUCH : 30 - 60 min

HANDLE : 4 - 6 hours

HARD : 14 - 18 hours

Overcoating Interval : :14 Hours (Min)

Flash Point : Above 25°C

Colour : Aluminum

Finish : Egg shell metallic

Packing : 20 ltrs

Thinner/Cleaner : Thinner 844

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 :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Solvent	Good	Good
Salt	Good	Good
Water	Good	Good

Weatherability: Excellent under cured condition

Flexibility : Good

Abrasion Resistance : Moderate

Temperature Resistance : Between -196 °C and 660 °C dry heat

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SURFACE PREPARATION

Steel : Remove grease, oil and other contaminants preferably by using a degreasing solvent as per SSPC SP1. Abrasive blast clean to a minimum SSPC SP 10 with a surface profile not exceeding 65 microns. The surface should be clean and dry before application of the primer coat. In cases where abrasive blasting is not feasible in maintenance then prepare the surface to SSPC SP 3 or SP11 using power tool cleaning after thoroughly water jet washing and drying with maximum of light flash rusting as per standards NACE NO. 5 or SSPC SP 12- WJ2 and NV2 as referred in SSPC vis-5 pictorial standard.

APPLICATION

Stir the base thoroughly and then mix nineteen parts base and one part catalyst by volume to uniform consistency. Mature for 10 mins stir again before & during application.

Brush / Roller : Apply without thinning and by multiple coats to get required thickness for difficult to reach areas.

Conventional Spray : Apply with not more than 2-5% Thinner 844. Use any standard equipment at an atomising pressure of 4.2 - 4.9 Kg/cm² using a handgun with 66 fluid tip, 70 thou orifice.

Airless spray: Add maximum upto 5% Thinner 844 if required. Use any standard equipment having pump ratio 30:1. Tip size 0.28.0.38 mm; tip pressure 110-160 kg / cm²

TYPICAL PAINTING SYSTEMS

Surface	1st Coat	2nd Coat	3rd Coat
Steel	BR Thermolite Aluminium	BR Thermolite Aluminium	-
Steel	Zinc Anode 304 MZ	BR Thermolite Aluminium	BR Thermolite Aluminium

Notes :

1. Use off the mixed paint within the stipulated pot life period.
2. Do not apply when temperature falls below 10° C or
when relative humidity rises above 90%. Do not apply during rain, fog or mist.
3. Brushes and spray equipment should be cleaned with Thinner 844
otherwise equipment is likely to be damaged.
4. Do not apply this coating on low temperature resistance HR coatings without total removal of old coatings
5. Do not apply when the substrate temperature is less than 3°C than the dew point temperature
6. Adequate ventillation should be provided while applying this coating

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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