James Briggs Ltd
Salmon Fields, Royton, Oldham OL2 6HZ UK
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www.jamesbriggs.co.uk

TECHNICAL DATA SHEET

EXTREME HEAT PAINT RANGE

1. Introduction

A range of premium quality, high temperature matt finishes with outstanding adhesion to bare ferrous metals, and excellent covering power. This range is designed primarily for use on components exposed to arduous operating conditions. This range must be stoved [cured] or processed at temperatures shown below to develop optimum thermal resistance.

Aluminium [XUK1005]	Black [XUK1001/XUK461]	Blue [XUK1004]	Clear [XUK1011]
	Silver-Grey [XUK1009]	Silver [XUK462]	White [XUK1002]

2. Where to use

Automotive and DIY applications, including exhaust systems, manifolds and barbeques, and Industrial uses in chemical plants, refinery protection, stoves, motors, chimneys and flues.

3. Where not to use

- On surfaces seen or suspected of being unsound, without first ascertaining suitability for use on an inconspicuous area, particularly where any existing coating is present.
- On areas which are unsuitable for post application stoving or where curing is not possible under operating conditions.

4 Benefits

- Exceptional thermal stability, up to 650°C depending upon colour.
- Good mechanical strength.
- Superb adhesion to bare steel.
- Resistant to petrol and oils.
- Excellent exterior durability.
- Self priming.

5. Physical properties [VHT paint bases except where stated].

Appearance	Clear and coloured liquids with characteristic paint solvent odours.
pH	Not applicable
Specific Gravity	0.92 – 1.14 depending upon colour
Viscosity	400 – 2,000 cPs depending upon colour
Non Volatiles % m/m	30 – 45
Active Content % m/m, as supplied	9 – 12
Flammability, as supplied	Extremely flammable, flash point below -20°C.
Composition Data, as supplied	Depending upon the colour, the product will consist of a solution of a silicone modified resin in a blend of solvents. Other components include a range of pigments, extenders and thixotropes, dispersed in a butane/propane/isobutane based propellant.
Volatile Organic Content, as supplied	Compliant with EU Directive 2004/42/CE
Service Temperatures	450°C [Silver] 650°C [Black] 500oC [Blue]
Application Temperatures	15 - 25°C

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6. Application Details

Ensure surface is clean and free any rust, paint or other extraneous or loosely adhering matter. Recommended methods include wire brushing, grit blasting or abrasive cloth, followed by wiping with thinners or white spirit. Mask off with newspaper and masking tape to prevent overspray. Use at 15 to 25 ^{o}C in a well ventilated area. No primer is required. Shake the can thoroughly for at least two minutes and spray a light mist coat from a distance of 15 – 30cm. Allow to dry for 15 – 30 minutes depending upon temperature, and apply a further coat giving full coverage. Allow to dry. Upon completion of use, invert can and depress actuator to prevent nozzle blockage.

CURING:

Ensure proper ventilation and avoid inhalation of fumes during the curing process.

The coated surface of machines, vehicles etc may be cured in use, apply heat and gradually build-up to maximum temperature. Maintain for 1 hour.

Sudden high temperatures will destroy the coating.

Smaller domestic items must never be used before cruring the coated surface.

Recommended minimum curing schedules are shown as follows:

Temperature °C	Time [Minutes]
230	8
220	20
205	30
190	50
160	100

7. Availability

400 ml aerosols, or selected colours supplied in 500ml EF [Extra Fill] aerosols.

B043820/1/2/3/6/49210/49230 August 2017