



James Briggs Ltd
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TECHNICAL DATA SHEET

ENGINE ENAMELS

1. Introduction

The Engine Enamel range has been specially formulated to be tough and durable designed for use on engine blocks and cylinder heads.

Aluminium [XUK437] Gloss Black [XUK465/XUK0121] Gloss red [XUK998]

2. Where to use

Primarily for use on engine blocks and cylinder heads

3. Where not to use

- On applications where the high temperature attributes are not required
- On surfaces where subsequent overcoating with an alternative coating is required.

4. Benefits

- One step application, products are self priming
- Excellent heat resistance*
- Extreme durability and toughness
- Resistant to petrol oils and greases

5. Physical properties [Engine Enamel bases except where stated].

Appearance	Coloured liquids with characteristic paint solvent odours.
pH	Not applicable
Specific Gravity	0.9 – 1.1
Viscosity	Pourable liquids
Non Volatiles % m/m	30 - 55
Active Content % m/m, as supplied	5.0 – 20.0
Flammability, as supplied	Extremely Flammable, flash point below -20°C
Composition Data, as supplied	Solvent based solutions of modified silicone and alkyd resins containing temperature stable pigment dispersions.
Volatile Organic Content as supplied	Compliant with EU Directive 2004/42/CE
Maximum Service Temperatures	Aluminium 300°C* Gloss Black 140°C Matt Black 300°C*
Application Temperatures	15 - 25°C

6. Application Details

Prepare the area to be treated, ensuring freedom from dust, grime, traffic film, greases, waxes, oils etc, using a detergent solution or an emulsifiable solvent based cleaner, followed by rinsing thoroughly and drying. Rust, other surface contamination, and loosely adhering matter should be removed using a wire brush or an appropriate grade of wet and dry abrasive paper.

Following preparation the surfaces should be further treated with a solvent wipe using HYCOTE BRAKE CLEANER, [XUK302], white spirit, or thinners and allowed to dry.

This information is provided in good faith based upon data and sources believed to be reliable and correct. Conditions of use, outside the control of the Company, dictate that no responsibility can be assumed for the ultimate performance of this product.



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Shake the can thoroughly for at least two minutes. Repeat shaking at regular intervals during use.

Do not use any primers.

Apply sparingly from a distance of 20 – 25cm. Apply a minimum of two coats or as necessary to achieve total and even coverage, leaving between 20 to 30 minutes between each application.

These products may be further overcoated with the same paints after a drying time of 24 hours.

On completion of use, invert can and depress actuator for a few seconds to prevent nozzle blockage.

* Full solvent resistance and physical properties for the two asterisked products will be achieved following post application heat curing at 220°C for 90 mins.

7. Availability

400ml aerosols for Aluminium and Matt Black. 400ml and 500ml aerosol for Gloss Black.

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