

# Technical Data Sheet



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**Product Name:** Ceramic Coating

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**Product Number:** PL134-R2

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**Product Description:** Green Ceramic blade coating for Aero Engine and compressors to operate at temperatures of up to 850°C (1,560°F).

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**Approvals/Specifications:**

- MSRR 9176
- OMat 7/75
- Rolls Royce Code: 137907

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**Performance:**

- PL134-R2 is used for use on internal combustion liners, used for example on the RB211.LP:1 compressor blade for sulphidation protection. Was also used also on the Olympus 593 (Concorde Engine).
- It prevents 'Nickel Green Rot', carbon penetration of Nickel based alloy.
- In addition to resisting a wide range of aviation fluids, abrasion and wear, it also has a resistance to thermal shock which is shown by the following tests:
  - Resistant to thermal shock. The panel is removed from the oven at 1,030°C (1,885°F) and immediately immersed into cold water; film detachment will be less than 5%.
  - Resistant to 100 hours at 850°C (1,560°F)

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**Components:** Single Pack Product. May be thinned for application using water.

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**Application:**

**Surface Preparation:** Ensure that all surfaces are clean and free from dirt

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<b>Paint Preparation:</b>	Material is liable to severe settlement and should be well stirred prior to use. Use of mechanical rollers for 1 – 2 hours prior to use is better.
<b>Application Method:</b>	Use RPS 661/18 (Not RPS 661/32 as stated in MSRR) Apply by spray, flash off for 30 minutes.
<b>Drying Curing:</b>	Transfer to oven at 100°C (210°F) for 1 hour, then to a furnace at 1,030°C (1,885°F) for 20 minutes

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## Technical Properties:

<b>Supply Viscosity:</b>	Thixotropic
<b>Flash Point:</b>	N/A
<b>VOC Content:</b>	0 g/l
<b>Colour:</b>	Green
<b>Pack Size:</b>	1 Litres
<b>Density:</b>	1.3g/cm <sup>3</sup>
<b>Gloss:</b>	Semi-Matt
<b>Thinner:</b>	Water
<b>Solvent/Clean Up:</b>	Water
<b>Catalyst:</b>	N/A
<b>Theoretical Coverage:</b>	12.2m <sup>2</sup> /litre at minimum recommended film thickness and 100% transfer efficiency.

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**Storage:** Store in closed original container between 5° and 25°C. Do not allow to freeze or go below 5°C.

**Shelf Life:** 12 months temperate; 6 months tropical

**Before use, refer to Product Safety Data Sheet**

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## Safety Data Sheets:

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