

Technical Data Sheet



Product Name: Clear Polyimide Coating

Product Number: PL163

EU REACH Status: Contains CAS: 872-50-4 which is classified as a SVHC. The future of this chemical is under discussion. SVHC status may lead to restriction of use by authorised users or the chemical may be banned under the REACH process.

Product Description: Highly resistant polyimide stoving enamel with good heat, corrosion and aircraft fluid resistance.

It is suitable for operating temperatures of up to 300°C (570°F). Also used in conjunction with IP9310 and IP9029 for protecting magnesium running at 300°C (570°F) for example on the Viper Engine.

Brushing and black versions can be made to order. Coatings have been tested to be resistant to 5Kv at film thicknesses of approximately 80 microns.

Approvals/Specifications:

- MSRR 9142
- OMat 7/134
- OMat 7/260 (Brushing)
- Rolls Royce Code: 139049
- AFS 1566
- MTU: MTS 1521
- NSN 8010-99-0516491

Performance: PL163 is tested to the following minimum specifications; actual performance is far in excess of the following:

Heat Resistance:	100 hours at 300°C (570°F)
Salt Water Fog:	100 hours
Skydrol:	3 hours at 70°C (160°F)

- Also used in conjunction with IP9310 and IP9029 for protecting magnesium running at 300°C (570°F) for example on the viper engine.
- Tested to be resistant to 5Kv at film thicknesses of approximately 80 microns

Components:

Single Pack Product. May be thinned for application using S030

Application:

- Surface Preparation:** Degrease abrasive blast and pre-treat as per individual specification
- Paint Preparation:** Stir well before use
- Application Method:** Application by conventional spray or HVLP
- Drying Curing:**
- Apply to RPS661/22
 - Heat the object to be coated to between 120 and 150°C (250-300°F) immediately prior to painting.
 - Spray one coat on to the heated object, when the object temperature reaches approx. 60°C (140°F), return it to the oven and reheat.
 - The coating shall then be stoved by heating the component to 150°C (300°F) ± 5°C (40°F) for 30 minutes.
 - Apply second coat following the procedure as for the first coat. Repeat the operation until the required film thickness is achieved; flash off for 20 minutes, then stove at 185-195°C (365-385°F) for 2 hours for full cure.

Technical Properties:

- Supply Viscosity:** 27-43 seconds ISO 5 cup
- Flash Point:** 27°C
- VOC Content:** 770 g / Litre
- Colour:** Clear
- Pack Size:** 1 & 5 Litres
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Density:	1.04 kg/litre
Gloss:	Gloss
Thinner:	S030
Solvent/Clean Up:	S030
Catalyst:	N/A
Theoretical Coverage:	10 sq m/litre @ 20 microns

Storage:

Highly flammable liquid: store and use in accordance with the flammable liquid regulations

Shelf Life: 12 months temperate; 6 months tropical

Before use, refer to Product Safety Data Sheet

Disclaimer:

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Safety Data Sheets:

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