

Technical Data Sheet



Product Name:

Clear Polyimide Coating

Product Number:

PL163
PL163-BRUSH

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 up to 10% 40024 thinners for polyimide coatings

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:	<ul style="list-style-type: none">- 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: (PL163)

Supply Viscosity:	Spray	27-43 seconds ISO 5 cup
	Brush	85-115 seconds ISO 6 cup
Flash Point:		27°C
VOC Content:	Spray	770 g/litre
	Brush	687 g/litre

Colour:	Clear / Amber	
Pack Size:	1 & 5 Litres	
Density:	Spray	1.03 kg/litre
	Brush	1.05 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:

The information printed in this publication is based upon the research and experience of Indestructible Paint Ltd. No representation of warranty is made, however, concerning the accuracy or completeness of the information presented in this publication. Indestructible Paint Ltd make no warranty or representation of any kind, express or implied. Including without information limitation any warranty or merchantability or fitness for any particular purpose, and no warranty or representation shall be implied by law or otherwise. Any products sold by Indestructible Paint Ltd are not warranted as suitable for any particular purpose to the buyer. The suitability of any products for any purpose in particular to the buyer is for the buyer to determine. Indestructible Paint Ltd assumes no responsibility for the selection of products suitable to the particular purpose of any particular buyer. Indestructible Paint Ltd shall in no event be liable for any special, incidental or consequential damages.

Safety Data Sheets:

For Safety Data Sheets please contact our Sales Department:

Tel: +44(0)121 702 2485

Email: sales@indestructible.co.uk