

Product Name:	IPCOTE High Heat Resistant Sacrificial Aluminium Coating		
Product Number:	IP9183-R1		
Product Description:	Sacrificial Aluminium Coating that is part of a range of corrosion resistant coatings designed for use in challenging environments such as aero engines and components, power generation and marine situations.		
	Spray applied lpcote is used on turbine blades, rotors, shafts and landing gear to protect components from salt laden atmospheres, high temperature oxidation, chemicals and abrasives.		
	The coating provides corrosion and oxidation protection to iron, steel, heat treated stainless steel alloys, titanium and other metallic substrates at temperature of up to 700°C. Ipcote can also be super or vibro polished (RPS 619) to enhance flow of air in aircraft engines where smooth surfaces are essential to enhance energy efficiency (See also Ipseal IP9184 and Smoothseal IP9444). IP9183-R1, when vibro polished achieves a R _a surface finish of \leq 12 micro inches.		
EU REACH Status	This coating contains Chromium Trioxide : CAS No: 1333-82-0. This is classified as a SVHC, and under annex XIV has a sunset date of September 2017. Continued use of this coating after this date will be restricted to authorised uses (uses 1, 4 & 5 as defined in authorisation) under the REACH chemical restriction process, for a defined time period: 4 years for industrial uses and 7 years for aerospace use.		
Approvals/Specifications:	 MSRR 9140 OMat 7/46B RR Code 137616 ITP SMM-903/1 Safran Landing Systems (Messier-Bugatti-Dowty) PCS 2550 Messier Dowty PS637 and PS639 Safran Aero Engines (Snecma) DMR 74-052 (Application to DMP16-049) GE – A50TF1, Class E 		

Indestructible Paint Ltd, 16-25 Pentos Drive, Sparkhill, Birmingham B11 3TA Tel: +44(0)121 702 2485, Fax: +44 (0)121 778 4338, E-Mail: <u>sales@indestructible.co.uk</u>, Web: <u>www.indestructible.co.uk</u> Registered in England: 1376995



- NSN: 8030-99-406-7055 _
- Siemens: 552208 -
- Under Review to CPW 88,
- Alternative to Sermetal W and WFX _

Performance:	Salt Spray corrosion resistance - ASTM.B117 - Minimum 1000 hours at 40-50 micron film thickness. Externally tested to achieve >3000 hours ASTM B117 exposure. Surface Conductivity - positive over complete film. 540 – 560°C cure – Electrically conductive post cure. 350°C cure – Electrically conductive post burnish process. Adhesion - 1mm Cross hatch. BS EN ISO 2409, class 0 Dry Heat - 1000 Hours at 600°C (1100°F) Cyclic salt water fog/heat at 450°C (840°F) - 240 Hours (480 Hours with Ipseal) Cyclic salt water fog/heat humidity/heat at 450°C (840°F) - 240 Hours (480 Hours with Ipseal) Operating Temperature: -40°C (-40°F) to 700°C (1290°F)
Components:	Single Pack Product. May be thinned for application using demineralised / de-ionised water
Application:	
Surface Preparation:	Ensure that surfaces are totally clean and dirt free
	Pre-Treatment: Typically de-grease then grit blast with 120/220 aluminium oxide. Surfaces must be dust free prior to coating.
Paint Preparation:	De-ionised Water; up to 5% by volume as required
Application Method:	Spray Conventional or HVLP. Fluid tip sizes between 0.8 and 1.6mm dependent upon component size and geometry. Gravity, syphon or pressure feed equipment may be used. Apply 1 thin wet mist coat, then 2-3 further thin wet coats, allowing the applied coating to flash off to a matt grey appearance.

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Drying Curing:	•••	PC (1 hour) (1000 – 1040°F) - dull face finish approximately 70 micro PF) – dull matt grey finish, non- shiny bright conductive aluminium oproximately 70 micro inches.	
	Refer to process sheet IPAS666 for complete lpcote range application instructions.		
Technical Properties:	Supply Viscosity:	45 +/- 5 seconds; ISO3 cup @ 23 +/- 2°C	
	Standard dry film thickness:	0.04 – 0.07mm recommended. May be applied down to 0.025mm	
	Flash Point:	N/A – Aqueous product	
	VOC Content:	0	
	Colour:	Grey/Green solution. Dull Grey after baking.	
	Pack Size:	1 and 5 litre	
	Density:	1.62 ± 0.02kg/l	
	Thinner:	Demineralised/De-ionised Water	
	Solvent/Clean Up:	Water	
	Theoretical Coverage:	7.9 – 10 m ² per litre	
Storage:	Water based corrosive and environ Ensure product is stored in a warm minimum temperature above 5°C (Ensure storage complies with loca	n, dry environment, with a 40ºF). Do not allow to freeze.	

Shelf Life: 12 months temperate; 6 months tropical

Before use, refer to Product Safety Data Sheet

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Safety Data Sheets:

For Safety Data Sheets please contact our Sales Department:

Tel: +44(0)121 702 2485

Email: sales@indestructible.co.uk