

Technical Data Sheet



PL177

Edition February 2025 Revision 1

Product Name

Heat Resistant Sacrificial Coating

Product Description

Corrosion resistant coating, touch up for IP9183 Ipcote, Sermetel W & WFX. For use with process A type Sermetel/Ipcote, for use on ferritic stainless steel aero engine and turbine components operating up to 600°C (1,115°F) and corrodible steel components up to 500°C (935°F), which are also subject to Skydrol, ester lubricants and sea water.

REACH Status

This coating contains Chromium Trioxide: CAS No: 1333-82-0. This is classified as a SVHC, and under annex XIV

UK and EU Authorisation – October 2024

October 2024 – UPDATE - UK

AFA032-01 – Chrome Conversion coating use Aerospace (DOW19)	UKREACH/24/15/4
AFA033-01- Formulation of mixtures	UKREACH/24/16/1
AFA037-01 – Slurry Coatings Aerospace use	UKREACH/2024/18/1
AFA045-01 – Formulation – Industrial	UKREACH/24/22/0
AFA045-02 – Industrial gas turbine use	UKREACH24/22/1

October 2024 – UPDATE – EU

AFA344 – Slurry Coating	REACH/24/68/3
AFA337-02 – Chrome Conversion Coating Aerospace use (DOW19)	REACH/24/61/1

Extension Dates from October 2024:

UK – 05/09/2036 (12 Years)

EU – 7 YEARS (Dates to be Confirmed – Still ongoing)

EU – DOW 19 a 12 year extension

Approvals and Specifications

MSRR 9141
OMat 7/47
RR Code 137770
ITP SMM-914
MIL-C-81751

Performance Properties

Tested to Rolls Royce specification MSRR 9141, to include:

100 hours resistance to intermittent salt spray (8 hours on 60 hours off)
Dry heat at 600°C (1,115°F) for 100 hours
Lubricating oils – 100 hours at room temperature, 100 hours at 70°C & 100 hours at 150°C
Skydrol hydraulic fluid – 100 hours at room temperature, 100 hours at 70°C
Methanol 100 hours at room temperature
Water and Methanol mix – 100 hours at room temperature

Components

Single Pack Product. May be thinned for application using demineralised / de-ionised water

Application

Refer to IPAS for full detailed instructions.

Surface Preparation	Ensure that surfaces are totally clean and dirt free Typically degrease then grit blast with 120/220 aluminium oxide. Surfaces must be dust free prior to coating.
Paint Preparation	Ensure product is well stirred/ rolled before use and that there is no Settlement. De-ionized water, up to 5% by volume as required
Mixing Ratio	Single Pack Product
Application Method	Stir coating during application. Use a Devilbiss Transtech Compliant Spray Gun with 1.6mm material nozzle equivalent.
Drying and Curing	Air dry for 1 hour; then cure for 1 hour @ 150°C (300°F) – refer to RPS 666/1 for additional details.

Clean gun and equipment with water

Technical Data Sheet



PL177

Edition February 2025 Revision 1

Liquid Technical Properties**

Supply Viscosity	Ready for Use
Flash Point	N/A – Aqueous Product
Density	1.53 g/ml
VOC Content	0
Colour	Light grey or silver
Gloss	Matt
Thinner	De-ionized water
Solvent/Clean Up	De-ionized Water
Theoretical Coverage	13 m ² per litre at 25 micron
Pack Size	1 Litre Containers
Pot Life	Single Pack product

** - The values referenced are obtained from Batch testing using controlled Quality techniques.

Storage

Water based corrosive and environmentally hazardous material.
Ensure product is stored in a warm, dry environment
with a minimum temperature above 5°C (40°F). Do not allow to freeze.
Ensure storage complies with local environmental controls.

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

Before use, refer to Product Safety Data Sheet

*** - Indestructible Paint decline any responsibility deriving from improper storage of Product and its Catalyst.

Contact

For Safety Data Sheets or other Information please contact our sales Department:

Tel: +44(0)121 702 2485

Email: sales@indestructible.co.uk

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, expressed 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.