

#### IP9444

#### Product Name

Smoothseal

## **Product Description**

Smoothseal is an inorganic protective coating used as a barrier on Ipcote IP9183-R1, Ipthin IP9356. Smoothseal cures to provide an ultra-smooth finish to improve dirt shedding and air flow properties.

All the lpcote coatings are conductive, sacrificial coatings and inherently porous. Smoothseal seals this porosity without detracting from their sacrificial properties. It also creates an electrically non-conductive barrier coat. The use of Smoothseal on top of these products results in an ultra-smooth, harder coating which provides a barrier against carbon deposits etc, extending the useful life of the base coat, and ultra-smooth finish which enhances airflow characteristics and therefore engine efficiency. When used to give an alternative system to Sermatech's 5380 system, it is applied over specially prepared Ipcote IP9183, (apply for Rolls process Spec 666/5). A light golden yellow colour, it has similar appearance to 5380DP

#### **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

<u> October 2024 – UPDATE</mark> - UK</u>

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

#### <u> October 2024 – UPDATE – EU</u>

AFA344 – Slurry Coating	REACH/24/68/3
AFA337-02 – Chrome Conversion Coating Aerospace use	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

### IP9444



### **Approvals and Specifications**

Release to MSRR3010, similar to MSRR9140 RPS666/5 NSN: 8030-99-371-0990 Meets CPW 406 Siemens: 552208

## **Performance Properties**

Smooth eggshell finish Typical thickness 4-6 microns per coat (0.2 thou) Operating temperature -40°C to 800°C (1420°F) Less than 0.6% hexavalent chrome

## Components

Single Pack Product. May be thinned with de-ionised water for spray application. Where low humidity is present within a spray facility the addition of 5-10% by volume of de-ionised water may be required.

## Application

Refer to IPAS for full detailed instructions.

Surface Preparation	Ensure that surfaces are totally clean and dirt free
Paint Preparation	Stir well before use. All separated material must be re-incorporated into the bulk product. No time limits are specified for the mixing operation. The operator must be satisfied that the product including any thinning solvent is thoroughly mixed before use. Where mechanical mixing is employed, care must be taken to not heat the product to above the maximum storage temperature. Mixing in open containers should be limited to <10-minute periods to ensure that solvent evaporation does not compromise the product. Shaking or rolling in closed containers is an acceptable mixing method for small volume products supplied ready for use.
Mixing Ratio	Single Pack Product
Application Method	Spray applied coating. Refer to application sheet IPAS666. Refer to RPS 666/5 for Rolls Royce parts
Drying and Curing	Air Dry: 10 minutes Heat Cure: Pre-bake for 30 minutes at 80-100°C, 30-60 minutes at 350°C

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



#### IP9444

Edition February 2025 Revision 1

## Liquid Technical Properties\*\*

Supply Viscosity	Ready for Use
Flash Point	N/A – Aqueous Product
Density	1.2 g/ml
VOC Content	0
Colour	Yellow
Gloss	Matt
Thinner	De-ionized water
Solvent/Clean Up	De-ionized Water
Theoretical Coverage	7.9 to 10 m <sup>2</sup> per litre
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

Indestructible

IP9444

Edition February 2025 Revision 1

## 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.