Technical Data Sheet



IP9447-Range

Product Name

Ipcote, High Heat-Resistant Sacrificial Aluminium Coating

Product Description

IP9447-R1 New Smoothseal is an inorganic protective coating used as a barrier normally on Smoothcote IP9442 to give an ultra-smooth finish. Smoothseal, seals any porosity within the sacrificial aluminium coatings that it covers and creates an electrically non-conductive barrier coat. In addition, it results in a smoother harder coating which provides a barrier against carbon deposits etc, extending the useful life of the base coat and gives a smoother finish which enhances air flow characteristics and therefore, engine efficiency.

When used to give an alternative system to Sermatech's 5380 system, it is applied over specially prepared IP9442

A light green colour, it has similar appearance to 4000 / 6000

New IP9447- X101 Darker Green has been developed to perform similarly to V900 / 101

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 - 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 (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

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Approvals and Specifications

TBC

Performance Properties

Operating temperature: -42 +700°C (1290°F). A smooth eggshell finish in green. Typical film thickness: 4-12 microns

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	De-ionized water, up to 5% by volume as required
Mixing Ratio	Single Pack Product
Application Method	Spray Conventional or HVLP. Fluid tip sizes between 0.8 and 1.6mm dependent upon 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.
Drying and Curing	Air Dry: 10 minutes - Heat Cure: Pre-bake for 30 minutes @ 80-100°C, 30-60 minutes @ 350°C





Liquid Technical Properties**

READY FOR USE	
N/A – Aqueous Product	
??	
60 to 65%	
0	
Grey Green solution, Matt Grey after baking	
Matt	
De-ionized water	
De-ionized Water	
7.9 to 10 m ² per litre	
1 and 5 Litre Containers	
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:

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Indestructible

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