Revêtements et peintures pour l'espace et la haute-technologie

. MAP ATOX 41-B

Low outgassing silicone varnish

Technical data sheet: RE 215-B Creation: March 1997 Revision: 6 Date: 07/05/2008 Page 1/1



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Coating characteristics		
Polymer matrix	0	Two component purified silicone elastomer
Density	0	About 1
Solids content	0	100 %
V.O.C.	0	388 g / L
Outgassing	0	in compliance with ESA standard : ECSS-Q-70-02A
Temperature range	0	- $100^{\circ}C \leftrightarrow + 200^{\circ}C$
Standard thickness	0	20 µm to 40 µm dry 2 crossed coats wet on wet
Theoretical consumption	0	20 g to 40 g of product / m^2
Surface preparation	0	perfect cleaning (please contact us) Any sticking on the resin being absolutely prohibited, the sticking areas must be masked before any paint application.
Base / catalyst weight ratio	0	100 / 10
Thinner	0	60 % to 80 % of MAP ATOX 41-B thinner
Filtration	0	80 µm nylon filter
Viscosity	0	23s to 33s Afnor cup 4 55s to 70s ISO cup 4
Pot life	0	2 h @ 20 °C
Applying conditions	0	18 °C ≤ T° ≤ 25 °C 30 % < RH < 80 %
Curing	0	24 h to 48 h @ 25°C or 12 h @ 65°C after 4 h of pre-curin @ 25°C

Definition

Low outgassing silicone varnish used to protect sensitive materials against atomic oxygen (Kapton, Mylar, Composites...). MAP ATOX 41-B allows optical transparency and prevents components like KOVAR from corrosion.

Aspect: Transparent

AFNOR NFT 36005 classification: Family I Class 10c. Purpose: Varnish for space use (satellites).

Properties

Test carried out	Qualification report
ATOX Exposure Outgassing Degradation under UV irradiation Humidity	CERT: CR/OX/ATOM/06 CNES 89/CT/DRT/TVE/TH n° 074 CNES DT-96-090/DGA/T/AE/MTE/TH ESA SP 1173 ESA MR 2523

Application parameters

MAP ATOX 41-B is delivered in 2 components to mix thoroughly before use. Add <u>MAP ATOX 41-B thinner</u> to get the right viscosity.

On Kapton, Mylar & composites apply <u>PSX primer</u>. Other substrates: please contact us.

For information only:

Spray gun:KREMLIN J4 (gravity alimentation) or J3 (aspiration)
Nozzle 12, AM HeadDebit:2.5 turns, oval jetPressure:2 barsVector gas:Compressed air

Packaging

125 g (110 g Base + 15 g Catalyst) 250 g (220 g Base + 30 g Catalyst)

👂 Storage

6 months in original unopened packaging between 5 $^\circ\text{C}$ & 25 $^\circ\text{C}.$

😣 Safety data

Precautions > General precautions in use for the application of resins containing solvents. Flammable product. Never handle near a flame. Store in a fresh and ventilated area.

Labelling > This preparation was classified in compliance with the directives in effect.

Transport > Please refer to our latest safety datasheet.

This information, based upon literature and our testing experience to date, is offered as part of our service to customers, and is intended for use by persons having technical skill, at their own discretion and risk for their own investigation and verification. We do not guarantee favourable results and we assume no liability in connection with its use. This information is not intended as a licence to operate under, or a recommendation to infringe, any patent covering any material or use.

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