

MAP ATOX 41

Low outgassing silicone varnish

Coating characteristics

Polymer matrix	Two component purified silicone elastomer
Density	About 1.00
Solids content	100 %
V.O.C.	372 g / L
Outgassing	in compliance with ESA standard : ECSS-Q-70-02A
Temperature range	- 100 °C ↔ + 200 °C
Standard thickness	10 µm to 30 µm dry 2 crossed coats at 15 min interval
Theoretical consumption	10 g to 30 g of product / m ²
Surface preparation	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 / activator weight ratio	100 / 10 / 6
Thinner	60 % to 70 % of MAP ATOX 41 thinner
Filtration	80 µm nylon filter
Viscosity	23s to 33s Afnor cup 4 55s to 70s ISO cup 4
Pot life	2 h @ 20 °C with activator
Applying conditions	18 °C ≤ T° ≤ 25 °C 30 % < RH < 80 %
Curing	24 h to 48 h @ 25 °C or 12 h @ 65 °C after 4 h of pre-curing @ 25 °C

*Non-contractual technical data: for your information only.
For further information, please contact us.*

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Definition

Low outgassing silicone varnish used to protect sensitive materials against atomic oxygen (Kapton, Mylar, Composites...).

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

Properties

Test carried out	Qualification report
ATOX Exposure	CERT CR/OX/ATOM/06
Outgassing	CNES 89/CT/DRT/TVE/TH n° 074
Degradation under UV irradiation	ESA SP 1173 ESA MR 22523

Application parameters

MAP ATOX 41 is delivered in 3 components to mix thoroughly before use. Add MAP ATOX 41 thinner to get the right viscosity.
On Kapton, Mylar & composites apply PSX primer beforehand.
Other substrates: please contact us.

For information only:

Spray gun: **KREMLIN J4** (gravity alimentation) or **J3** (aspiration)
Nozzle 12, AM Head
Debit: **2.5 turns, oval jet**
Pressure: **2 bars**
Vector gas: **Compressed air**

Packaging

125 g (110 g Base + 15 g Catalyst) + 2 x 3 g activator
250 g (220 g Base + 30 g Catalyst) + 4 x 3 g activator

Storage

6 months in original unopened packaging between 5 °C & 25 °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.