

MAP EPOX 201

Low outgassing flexible epoxy varnish



Licence n°89/CNES/6304

Coating characteristics

Polymer matrix	➤ Epoxy with polyamide hardener
Density	➤ 1.11 ± 0.05
Solids content	➤ 100 %
V.O.C.	➤ 98 g / L (brush application) 310 g / L (spray gun application)
Electrical surface resistance	➤ $R_s > 10^{10} \Omega/\square$
Electrical volume resistance	➤ $R_v \approx 10^{12} \Omega/\text{cm}^3$
Temperature range	➤ From - 60 °C to + 100 °C
Surface preparation	➤ Perfect cleaning (contact us) Any sticking on the resin being absolutely prohibited, the sticking areas must be masked beforehand.
Base/hardener weight ratio	➤ 72 / 28
Thinner	➤ - <i>Brush application</i> : no dilution or 10% to 20% of MAP EPOX thinner - <i>Spray gun application</i> : 40% to 50% of MAP EPOX thinner
Viscosity	➤ - <i>No dilution</i> : 9 Pa.s. Brookfield spindle 6 spd 5 8.25 Pa.s. Brookfield spindle 6 spd 20 - <i>From 40 % to 45 % dilution</i> : from 16s to 18s Afnor cup 4
Pot life	➤ 15 min (no dilution) 1 h (dilution)
Applying conditions	➤ 18 °C ≤ T° ≤ 25 °C RH < 80 %
Curing	➤ 24 h @ 25 °C
Adhesion	➤ Very high adhesion to most substrates: epoxy-glass fibre, epoxy-Kevlar, polyamide glass fibre, ceramic, copper, silver, gold ...

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

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Definition

Low outgassing 2 component flexible epoxy varnish used for electrical insulation and as protection against moisture in printed circuit boards and in electronic components. It is also used as transformers coil impregnating varnish.

Aspect: **Glossy amber**

AFNOR NFT 36005 classification: Family I Class 6b.

Purpose: developed by CNES, this varnish can be used in the space industry, aeronautics, vacuum technologies, electronics...

Properties

Test carried out	CNES Qualification report
Outgassing	➤ 89/CT/DRT/TVE/TH n° 074
Electrical properties	

Application parameters

MAP EPOX 201 is delivered in 2 components that must be mixed thoroughly before use.

If necessary, add MAP EPOX thinner to get the right viscosity.

☞ *Never mix more than 100 g at once, because of fast and exothermic reaction.*

For information only:

Spray gun: **KREMLIN J4**, gravity alimentation, **Nozzle 12**, **AM Head**

Debit: **2.5 turns**, oval jet

Pressure: **2 bars**

Vector gas: **Compressed air**

Packaging

400 g (280 g Base + 120 g Hardener)

Storage

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

Safety data

Precautions ➤ General precautions in use for the application of products containing epoxy resins. Store in a fresh & ventilated area, without altering the properties.

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

Transport ➤ Please refer to our latest safety datasheet.