



Technical data sheet: RA 151  
Creation: March 1986  
Revision: 6  
Date: 11/03/2008  
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# ..... MASTIC SILICONE AS .....

*Antistatic white silicone mastic*



## ➤ Coating characteristics (1/2)

Polymer matrix	➤ Silicone
Pigment	➤ Titanium dioxide & metallic oxides
Solvent	➤ Toluene
Density	➤ 1.65 ± 0.10
Solids content	➤ 70 % ± 3 %
V.O.C.	➤ 495 g/L
Solar absorbance	➤ $\alpha_{2\pi S} = 0.38 \pm 0.02$ (out of atmosphere) $\alpha_{2\pi S} = 0.34 \pm 0.02$ (on the ground)
IR Emittance	➤ $\epsilon_p = 0.85 \pm 0.03$
Electrical surface resistance	➤ $1 \text{ M}\Omega/\square \leq R_s \leq 100 \text{ M}\Omega/\square$
Limit working temperature	➤ + 60 °C
Standard thickness	➤ 50 µm dry minimum 1 or several crossed coats wet on wet
Theoretical Consumption	➤ 200 g/m <sup>2</sup> of product @ 50 µm i.e. 2.5 g dry / m <sup>2</sup> per dry µm
Surface preparation	➤ Perfect cleaning (Please contact us)

## ➤ Definition

Antistatic white silicone mastic.  
High adhesion to silicone materials.

Aspect: **mat white**  
AFNOR NFT 36005 classification: Family I Class 10c.

Purpose: This coating may find applications in the following fields:

- Space industry (launchers)
- Aeronautics

CNES qualification 85/CST/DRT/SST/TH/184  
CNES/MAP registered patent  
SPEC Aerospatiale Aquitaine NT 23240/AQEN ind.A

## ➤ Properties

Test carried out	CNES qualification report
- Electrical surface resistance	➤ CT/DRT/TVE/TH n° 328
- Thermo-optical properties	➤ CT/DRT/TVE/TH n° 591
- Thermal cycling	➤ DTS/AE/MTE/TH/02-061

## ➤ Application parameters

MASTIC SILICONE AS is delivered in 3 pre-measured components. Mix thoroughly the base first and then add the catalyst. Mix again and add the activator. Finally, thoroughly mix the 3 components together.

*For information only:*

- Spray gun: **KREMLIN M22, pressure pot**  
**Nozzle 15, EN3 head**
- Output: **1.5 turns**
- Pressure: **Pot => 0.2 bars**  
**Spray gun => 2.5 bars**
- Vector gas: **Compressed air**





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## ➤ Coating characteristics (2/2)

Base / catalyst / activator weight ratio	➤ 98 / 2 / 0.2
Induction time	➤ None
Pot life	➤ 8 h @ 20 °C ± 5 °C
Applying conditions	➤ 15 °C ≤ T° ≤ 30 °C Minimum T° of the substrate: 15 °C 40 % < RH < 70 %
Drying conditions	➤ 2 h @ 20 °C ≤ T° ≤ 25 °C or 4 h @ 15 °C ≤ T° ≤ 20 °C followed by: 10 h to 16 h of curing @ 35 °C ≤ T° ≤ 40 °C or 20 h of curing @ 25 °C ≤ T° ≤ 30 °C

## ➤ Packaging

- 1 Kg (0.980 Kg Base + 0.020 Kg Catalyst + 0.002 Kg Activator)
- 5 Kg (4.900 Kg Base + 0.100 Kg Catalyst + 0.010 Kg Activator)

## ➤ Storage

6 months in original unopened packaging between 5 °C and 25 °C, away from humidity, without altering the properties.

## ➤ Safety data

- Precautions** ➤ General precautions in use for the application of paints containing solvents. Very flammable product. Never handle near a flame. Store in a fresh & ventilated area.
- Labelling** ➤ This preparation was classified in compliance with the directives in effect.
- Transport** ➤ Please refer to our latest safety datasheet.

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

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