

## PS PRIMER

*Low outgassing anticorrosion polyurethane primer*

### Coating characteristics

Polymer matrix	☉	Polyurethane
Pigment	☉	Chromates
Solvent	☉	Aromatic
Density	☉	1.51 ± 0.05
Solids content	☉	70 % ± 3 %
V.O.C.	☉	594 g / L
Standard thickness	☉	20 µm to 30 µm dry 1 mist coat + 1 crossed coat
Theoretical Consumption	☉	70 g / m <sup>2</sup> of product @ 25 µm i.e. 2 g dry / m <sup>2</sup> per dry µm
Surface preparation	☉	<b>On composites:</b> Crossed sandpapering, dust removal with compressed air, cleaning by rubbing with Forane 141b or equivalent, then acetone.  <b>On metallic materials:</b> Crossed sandpapering, dust removal with compressed air, cleaning by immersion or rubbing with Forane 141b or equivalent, then with acetone.  (For further information, please contact us)  Any sticking on the paint being absolutely prohibited, the sticking areas must be masked before any paint application.
Base / hardener weight ratio	☉	83 / 17
Thinner	☉	20 % to 35 % of PS thinner
Filtration	☉	80 µm nylon filter
Viscosity	☉	14s to 18s AFNOR cup 4 @ 20°C
Induction time	☉	20 min to 30 min @ 20°C
Pot life	☉	8 h @ 20°C
Applying conditions	☉	15°C ≤ T° ≤ 25°C The surface T° must be at least 3°C > the dew point to avoid any condensation 40 % ≤ RH ≤ 70 %
Tack free	☉	1 h to 1 h 30
Dry to handle	☉	6 h
Covering time	☉	24 h to 72 h

### Definition

Two component low outgassing anticorrosion polyurethane primer.

Aspect: **satin-mat yellow**

AFNOR Classification NFT 36005: Family I Class 6a.

Purpose: developed with CNES, this primer is used in space industry. It may be applied on metallic materials (steel, aluminium alloys, Kapton, Mylar) and composites.

CNES qualification report:

☉ 87/CT/DRT/TVE/TH n° 262

Paint systems for space use:

☉ PS + PU1	☉ PS + PSX + PCBE
☉ PS + PUK	☉ PS + PSX + SG121FD
☉ PS + PSW + SG121FD	☉ PS + PSX + SCK5 ...

### Application parameters

PS primer is delivered in 2 components to mix thoroughly before use. Then add **PS thinner** to get the right viscosity.

*For information only:*

Spray gun: **KREMLIN, J3, J4 or SKM18,**

Nozzle 12 or 14, AM or N1 head

Output: **2 to 3 turns, oval jet**

Pressure: **2 to 3 bars**

Vector gas: **Compressed air**

### Packaging

1 Kg (0.83 Kg base + 0.17 Kg hardener)

### Storage

Up to 12 months in original unopened packaging at 20°C ± 5°C and away from humidity.

### Safety data

Precautions ☉ General precautions in use for the application of paints 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.

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