PPG Aerospace
PRC-DeSoto

5014 PU Surfacer

TECHNICAL DATA SHEET

Product Description

5014 is a two pack polyurethane sanding surfacer that provides an improved appearance to aluminium when used over P99 and PAC33. 5014 is also suitable for use over epoxy, polyester and polyamide composite surfaces.

- Highly flexible
- Water resistant
- Good fluid resistance including phosphate ester hydraulic fluids
- Transparent to ultrasound & radar

Components



Mix Ratio (by volume)

• 5425/0000 (Base)	2 parts
• 0707/9000 (Activator)	1 part
• 0491/9000 (Thinner)	1 part

Specifications



5014 is qualified to:

- ASNA 4251
- BLGG 900101
- WL5.7140

5014 meets the requirement of :

- AIMS 04-04-002
- AIMS 04-04-011

Product Compatibility
5014 is compatible with the following primer specifications:

- AIMS 04-04-004
- AIMS 04-04-012
- AIMS 04-04-054
- AIMS 04-04-055

Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.

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Surface Preparation and Pretreatment



Ensure the surface is clean, dry and intact using a high performance solvent cleaner - DeSoto® CN20, Desoclean™ 45 or DeSoto® CN13 solvent cleaners are recommended.

Aged P99/PAC33 primers requires mechanical sanding prior to application of 5014 sanding surfacer.

Composites Surfaces require cleaning with DeSoto® CN20, Desoclean™ 45 or DeSoto® CN13 solvent cleaners to remove release agents and contaminates.

Instructions for Use



Hand stir or mechanically shake base material until all components are uniformly dispersed. Add activator to base component and mix thoroughly. Add thinner while stirring.

Note: All products and components should be placed in ambient conditions of 15-30°C (59-86°F) for at least 24 hours prior to mixing and application.



Induction Time:

Not required

Viscosity: (23°C/73°F)

• AFNOR2.5	45 - 80 seconds
• AFNOR4	15 - 20 seconds
• BSB3	26 - 40 seconds
• FORD4	12 - 19 seconds
• ISO3	37 - 85 seconds
• ISO4	18 - 38 seconds
• ZAHN2	16 - 25 seconds

Note: Viscosities quoted are typical ranges obtained when using specified mix ratio.



Pot Life:

3 hours @ 21 - 25°C (70 - 77°F)

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Application Guidelines

Recommended Application Conditions:

Temperature	15 - 35°C (59 - 95°F)
Relative Humidity	30 - 85%

Application:

Apply several single passes to achieve the required dry film thickness.

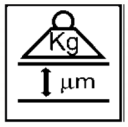


Theoretical Coverage: (ready for use)

4 m² /Lt @ 90 µm dry film thickness
160 ft/US gal @ 3.6 mil dry film thickness

Recommended Dry Film Thickness:

40 - 150 µm
1.6 - 6 mil



Dry Film Density:

1.60 - 1.78 g/cm³
13.4 - 14.8 lbs./US gal

Dry Film Weight:

145 - 161 g/m² @ 90 µm dry film thickness
0.029 - 0.032 lbs/ft² @ 3.6 mil dry film thickness

Note: These application guidelines represent PPG's best advice for usage in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.

Equipment:



Equipment Type	Tip Size	Pressure
HVLP Air Spray	1.2 mm	21 to 29 psi (1.5 to 2 bar)
Pressure Pot	1.5 mm	41 to 72 psi (3 to 5 bar)
Airless	0.3mm Angle 67° or 80°	1450 to 1885 psi (100 to 130 bar)

Equipment Cleaning:

Clean as soon as possible after use. DeSoto® CN20 or Desoclean™ 45 solvent cleaners are recommended.

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Physical Properties

Colour:

White (5425/0000)
Blue (5425/6407)

Gloss:

N/A

DRYING TIMES @ 50% R.H	23°C (73°F)	60°C (140°F)
Dust Free	90 minutes	
Dry to Touch	4 hours	30 minutes
Dry to Tape	8 hours	
Dry to Sand	10 hours	1 hour
Dry to Overcoat	2 hours (min.) 72 hours (max.)	1 hour
Full Cure	7 days	5 hours

Note: Drying times listed above are dependent upon film thickness applied, air flow conditions and application technique.

Flash Off Time:

30 minutes prior to force dry

VOC: (ASTM)

Mixed ready for use	540 g/Lt
5425/0000 Base Component	430 g/Lt
0707/9000 Activator	455 g/Lt
0491/9000 Thinner	840 g/Lt

Flash Point:

5425/0000 Base Component	30°C (86°F)
0707/9000 Activator	50°C (122°F)
0491/9000 Thinner	-3°C (27°F)

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Shelf Life:

5425/0000 Base Component	24 months in original unopened container
0707/9000 Activator	24 months in original unopened container
0491/9000 Thinner	10 years in original unopened container

Note: Shelf life may vary due to OEM specification requirements. Refer to container label for specific shelf life information.

Note: The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

Storage Recommendations



Inspect the condition of the container to ensure compliance. The material should be stored at temperatures between 5°C to 35°C (41°F to 95°F) to ensure shelf life.

Note: When procuring to a qualified material specification, follow those storage instructions.

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Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An SDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children.

Additional information can be found at: www.ppgaerospace.com

For sales and ordering information call the local PPG office at the numbers listed below:

Asia Pacific

ASC – Australia
Tel 61 (3) 9335 1557
Fax 61 (3) 9335 3490

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Fax 81 561 35 5201

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Fax 65 6861 6162

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Fax 33 (0) 235 53 54 44

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PPG Aerospace
Sealants and Coatings
Darlington Road
Shildon, Co Durham UK
DL4 2QP
www.ppgaerospace.com
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