



# Super Koropon® 513K009 Fluid Resistant Interior Primer

## TECHNICAL DATA SHEET

### Product Description

Super Koropon® 513K009 is a fluid resistant structural interior primer. This primer is used to protect the structural interior of aircraft from corrosion.

- Compatible with epoxy and urethane interior topcoats
- Excellent adhesion to a wide variety of substrates
- Excellent Skydrol® resistance
- Compatible with all current non-electrostatic spray equipment
- Can be applied in a wide range of conditions
- Service temperature -54°C to 177°C (-65°F to 350°F)

### Components



#### Mix ratio (by volume):

- |                                 |        |
|---------------------------------|--------|
| • 513K009 (base component)      | 1 part |
| • 910-012 (activator component) | 1 part |

### Specifications



513K009 primer is qualified to:

- BAMS 565-001 Grade A Category 1 Type 1
- BMS 10-11 Type I Class A Grade A

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

#### Product Compatibility:

513K009 primer is compatible with the following topcoat specifications:

- |                     |            |
|---------------------|------------|
| • BMS 10-11 Type II | • DMS 2143 |
| • BMS 10-60 Type I  | • DPM 5391 |

### Surface Preparation and Pretreatments



Super Koropon® 513K009 primer can be applied over clean, dry, and intact aluminum and composite surfaces. Aluminum surfaces shall be treated with materials conforming to MIL-C-5541 or equivalent.



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## Instructions for Use



### Mixing Instructions:

Prior to mixing, thoroughly shake the base component. Add the activator to base component and stir well, maintain constant agitation for 10 minutes to ensure proper mixing. Induction time is required.

*Note: It is important to condition the paint for 24 hours prior to mixing by placing all materials in the shop or hangar, with ambient temperatures between 13° and 35°C (55° to 95°F). The minimum temperature of the paint components should be 13°C (55°F) prior to mixing.*



### Induction Time:

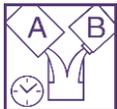
Temperature	13 - 21°C (55 - 70°F)	22 - 28°C (71 - 84°F)	>29°C (>85°F)
Induction Time Required	45 minutes	30 minutes	15 minutes



### Viscosity: (23°C/73°F)

- #1 Signature Zahn cup 26 to 35 seconds
- #2 Signature Zahn cup 12 to 16 seconds
- #4 Ford cup 10 to 12 seconds
- ISO 3mm cup 30 to 37 seconds
- ISO 4mm cup 14 to 18 seconds
- BSB3 cup 21 to 26 seconds
- BSB4 cup 12 to 15 seconds
- AFNOR #2.5 cup 37 to 45 seconds
- AFNOR #4 cup 13 to 15 seconds

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



### Pot Life:

16 hours @ 21 - 25°C (70 - 77°F)



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## Application Guidelines

### Recommended Application Conditions:

Temperature	15 - 30°C (59 - 86°F)
Relative Humidity	20 - 90%

### Application:

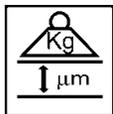
Ground the aircraft and the application equipment before priming. Stir the primer slowly during the application. The suggested film thickness is 12.5 to 22.5 microns (0.5 to 0.9 mils). This can be accomplished with one medium coat with a 50% overlap.

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



### Theoretical Coverage:

9.4 square meters/liter at 25 microns dry film (382 square feet/gallon at 1 mil dry film)  
Recommended dry film thickness; 12.5 to 22.5 microns (0.5 to 0.9 mils)



### Dry Film Density:

1.84 grams/cubic centimeter (15.34 pounds/gallon)

### Dry Film Weight:

43 grams/square meter at 25 microns dry film (0.00937 pounds/square feet at 1 mil dry film)



### Equipment:

513K009 primer is compatible with all non-electrostatic spray equipment.

Equipment Type	Tip Size	Pot Pressure	Atomization Pressure at the Cap
High Volume Low Pressure Spray Gun (HVLP)	1.0 mm to 1.4 mm	10 to 20 psi (0.69 to 1.4 bar)	10 psi maximum (0.69 bar)
Conventional Air Spray Gun	1.2 mm to 1.8 mm	10 to 20 psi (0.69 to 1.4 bar)	45 to 60 psi (3.1 to 4.1 bar)

### Equipment Cleaning:

Clean spray equipment as soon as possible after use. Flush spray equipment with DeSoto<sup>®</sup> CN20, DeSoto<sup>®</sup> CN44, or Desoclean<sup>™</sup> 45 high performance solvent cleaner.



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## Physical Properties (product)



**Color:** Yellow



**Gloss:** Not Applicable



<b>Dry Times</b>	<b>13 - 21°C (55 - 70°F)</b>	<b>22 - 28°C (71 - 84°F)</b>	<b>&gt;29°C (&gt;85°F)</b>
Tack Free	45 minutes	30 minutes	15 minutes
Dry to Stack	1 hour	45 minutes	30 minutes
Dry to Tape	2 ½ hours	2 hours	1 ½ hours
Dry Through	5 hours	4 hours	3 hours
Dry to Topcoat	1 - 24 hours	1 - 24 hours	1 - 24 hours
Dry to Fly	60 hours	48 hours	40 hours
Full Cure	7 days	7 days	7 days

Accelerated cure to dry hard:

Allow 15 minutes flash off at 24°C ± 3°C (75°F ± 10°F)  
followed by 40 - 45 minutes at 49°C (120°F)



### **VOC (EPA method 24):**

Mixed, ready to use VOC	650 grams/liter
Base Component	497 grams/liter
Activator Component	792 grams/liter



### **Flash point closed cup:**

Base Component	16°C (60°F)
Activator Component	-6°C (22°F)



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## Shelf Life:

12 months from date of manufacture to most OEM material specifications. Consult the specification to verify shelf life requirements.

24 months from date of manufacture for PRC-DeSoto Standard.

*Note: The coating shelf life is provided for original, unopened containers.*

*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](http://www.ppgaerospace.com)**

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

### **Asia Pacific**

#### **ASC – Australia**

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