

# PR-1432GV Corrosion Inhibitive Coating

## TECHNICAL DATA SHEET

### Product Description

PR-1432GV is a corrosion inhibitive, elastomeric, sprayable, polysulfide coating. It is designed for use in high abrasion areas or areas that require extra flexibility.

- Excellent dissimilar metal corrosion resistance
- Abrasion resistant
- May be applied by spray or it may be brushed
- Over coated with Desothane® HS topcoats
- Service temperature -54°C to 177°C (-65°F to 350°F) with intermittent excursions up to 135°C (275°F)

### Components



#### Mix ratio (by volume):

- Part A (activator component) 10 parts
- Part B (base component) 100 parts

#### Mix ratio (by weight):

- Part A (activator component) 8.73 parts
- Part B (base component) 100 parts

### Specifications



PR-1432GV is qualified to:

- GP111BA
- PRC-DeSoto Standard

#### Product Compatibility:

PR-1432GV is compatible with the following topcoat specifications:

- BMS 10-60 Type II
- BMS 10-72 Type VIII
- BMS 10 -125 Type III
- DMS 2115
- MIL-PRF-85285
- MMS 420

### Surface Preparation and Pretreatments



PR-1432GV can be applied over clean, dry, intact aluminum and composite surfaces. Aluminum surfaces shall be treated with materials conforming to MIL-C-5541 or equivalent.

Immediately before applying coating to primed substrates, the surface should be cleaned with solvents. Contaminants such as dirt, grease, and/or processing lubricants must be removed prior to coating application.

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## Instructions for Use



### Mixing Instructions:

Prior to mixing, thoroughly mix the base component. Activator component should be stirred by hand before mixing. Add activator to base component and stir well.

PR 1432GV is supplied in a two-part kit. Part B has a tendency to settle out during storage; therefore, proper mixing and correct proportions are extremely important to ensure effective performance. Thoroughly stir Part B to obtain a uniform consistency before adding Part A. Stir Part A in its container or hand shake the smaller kits until uniform consistency is obtained.

The recommended mixing method is with a paint shaker. Add all the Part A to the Part B being sure to scrape the sides and bottom of the container. Replace the lid on the Part B container. For mixing pint, quart, or gallon kits use a standard gallon capacity paint shaker. Vibrate the shaker at 1350 vibrations/minutes for 3 - 5 minutes in an upright position followed by 3 - 5 minutes in an inverted position.

If thinner is needed, use Acetone and/or Oxsolve up to 20% by volume.

*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.*



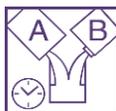
### Induction Time:

Not Required



### Viscosity: (23°C/73°F)

Not Required



### Pot Life:

2 hours @ 21 - 25°C (70 - 77°F)

## Application Guidelines

### Recommended Application Conditions:

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

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## Application:

Ground the aircraft and the application equipment before priming. Stir the primer slowly during the application. The suggested film thickness is 37 to 75 microns (1.5 to 3.0 mils). This can be accomplished by one or two medium coats with a 50% overlap. Note the first coat should be allowed to tack up before applying the second coat. If the second is applied before the first coat has tacked up, sagging may occur.

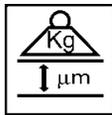
*These application guidelines represent PPG's best advice in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.*



## Theoretical Coverage:

24 square meters/liter at 25 microns dry film (966 square feet/gallon at 1 mil dry film)

Recommended dry film thickness; 37 to 75 microns (1.5 to 3.0 mils)



## Dry Film Density:

1.68 grams/cubic centimeter (14 pounds/gallon)

## Dry Film Weight:

42 grams/square meter at 25 microns dry film (0.00865 pounds/square feet at 1 mil dry film)



## Equipment:

Equipment Type	Tip Size	Pot Pressure	Atomization Pressure at the Cap
Electrostatic Air Spray Gun	1.2 mm or 1.5 mm	10 to 20 psi (0.69 to 1.4 bar)	45 to 60 psi (3.1 to 4.1 bar)
Electrostatic Air Assisted Airless Spray Gun	#611 or #613 (Graco Nomenclature)	700 to 1200 psi (48 to 82 bar)	40 to 60 psi (2.8 to 4.1 bar)
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® CN20, DeSoto® CN44, or Desoclean™ 45 high performance solvent cleaner.

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## Physical Properties (product)



**Color:** Part A Dark Amber  
 Part B Gray  
 Mixed Greenish Gray



**Gloss:** Not Applicable



Dry Times	15.6°C (60°F)	24°C (75°F)	32°C (90°F)
20% R.H.			
Time Between Coats	1 hour	45 minutes	30 minutes
Dry to Touch	4 hours	2 hours	1 hour
Dry to Topcoat	12 - 24 hours	6 - 12 hours	4 - 8 hours
Dry to Walk	24 - 36 hours	18 - 24 hours	12 - 16 hours
50% R.H.			
Time Between Coats	1 hour	45 minutes	30 minutes
Dry to Touch	4 hours	2 hours	1 hour
Dry to Topcoat	12 - 24 hours	6 - 12 hours	4 - 8 hours
Dry to Walk	24 - 36 hours	18 - 24 hours	12 - 16 hours
80% R.H.			
Time Between Coats	2 hours	90 minutes	60 minutes
Dry to Touch	8 hours	4 hours	2 hours
Dry to Topcoat	24 - 48 hours	6 - 12 hours	6 - 12 hours
Dry to Walk	48 - 72 hours	36 - 48 hours	18 - 24 hours

**Accelerated cure:**

Allow 60 minutes flash off at 24°C ± 3°C ( 75°F ± 10°F)  
 followed by 1 hour at 52°C (125°F)

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### VOC

#### VOC:

Mixed, ready to use VOC (EPA method 24)	270 grams/liter
Base Component	277 grams/liter
Activator Component	0 grams/liter



#### Flash point closed cup:

Base Component	-5°C (23°F)
Activator Component	No flash point

#### Shelf Life:

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

*Note: 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 4°C to 27°C (40°F to 80°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:**

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