

# Aerocron™ 2200 Anionic Epoxy Primer

## TECHNICAL DATA SHEET

### Product Description

Aerocron™ 2200 is an anionic epoxy electrocoat primer technology designed to provide optimal corrosion protection over aircraft substrates. It is a chrome-free, water-based technology that is applied via an immersion process which uses electrical current to deposit the coating onto a conductive substrate.

The electrocoat process also provides advantages over spray technology with increased productivity, increased transfer efficiency on parts, full automation capabilities, lower waste disposal costs, and uniform film thickness which results in an overall weight reduction.

- >95% Material Usage
- Total paint coverage on complex parts
- Easy mil thickness control
- Lower VOC
- Water-based technology
- No chrome or other heavy metals
- Full line automation (increased productivity)

### Components



#### **Components:**

- ACRS2200 (resin component)
- ACPP2220 (pigment paste)
- ACCP2240 (anticorrosion paste)

*Note: Please consult the Aerocron™ 2200 Process Control Document for blend ratio.*

### Specifications



Aerocron™ 2200 Anodic epoxy primer is qualified to:

- AMS 3144 Type I Class N

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



# Aerocron™ 2200 Anionic Epoxy Primer

## Product Compatibility:

Aerocron™ 2200 primer is compatible with the following topcoat specifications:

- AIMS 04-04-025
- BAMS 565-002
- BMS 10-11 Type II
- DMS2115
- GC130N
- GP110AEF
- MIL-PRF-85285 Type I & Type IV
- MMS420

*Note: If a topcoat is required, Aerocron™ 2200 has been tested and is compatible with most solvent-borne and waterborne primers and topcoats. Contact PPG Aerospace Coatings Platform regarding surface preparation prior to application of primer or topcoat.*

## Surface Preparation and Pretreatments



Aerocron™ 2200 primer can be applied over clean, properly prepared aluminum surfaces. Aluminum surfaces should be treated with an alkaline degreasing step followed by an acid deoxidization.

Additional pretreatment processing steps including anodizing or chemical conversion coatings are not required but can be utilized.

Contact your PPG Aerospace coatings platform regarding procedures for surface preparation and subsequent pretreatment.

## Instructions for Use



### Mixing Instructions:

Consult the Aerocron™ 2200 Process Control Document.



### Induction Time:

Not Required

## Application Guidelines

### Application:

Consult the Aerocron™ 2200 Process Control Document



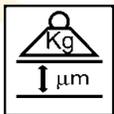
# Aerocron™ 2200 Anionic Epoxy Primer

**Theoretical Coverage:**

13 square meters/liter at 25 microns dry film (519 square feet/gallon at 1 mil dry film)

Recommended dry film thickness; 15 to 30 microns (0.6 to 1.2 mils)

*Note: For film thicknesses outside of the recommended range contact the PPG Aerospace Coatings Platform.*

**Dry Film Density:**

1.28 grams/cubic centimeter (10.6 pounds/gallon)

**Dry Film Weight:**

32 grams/square meter at 25 microns dry film (0.007 pounds/square foot at 1 mil dry film)

*Note: Value based on a bath composition of 20% solids and 0.2 p/b ratio*

## Physical Properties (product)



**Color:** Gray



**Gloss:** Not Applicable

**Bake Condition:**

Minimum 30 minutes at 110°C - 115°C (230°F - 239°F) metal temperature.

After thermal bake parts are fully cured and can be handled without any dry to touch / tape or fly restrictions.



# Aerocron™ 2200 Anionic Epoxy Primer

## VOC

### VOC:

Mixed, ready for use VOC-Bath	128 grams/liter
ACRS2200	117 grams/liter
ACPP2220	72 grams/liter
ACCP2240	230 grams/liter

*Note: calculated following the definition of VOC components (vapor pressure minimum 0.01KPa at 23°C) and without water.*



### Flash point closed cup:

ACRS2200	>93°C (>200°F)
ACPP2220	64°C (147°F)
ACCP2240	61°C (142°F)

### Shelf Life:

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

*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 7°C to 32°C (45°F to 90°F) to ensure shelf life.

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



# Aerocron™ 2200 Anionic Epoxy Primer

## 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**

Tel 61 (3) 9335 1557  
Fax 61 (3) 9335 3490

#### **ASC – Japan**

Tel 81 561 35 5200  
Fax 81 561 35 5201

#### **ASC – South East Asia**

Tel 65 6861 1119  
Fax 65 6861 6162

#### **ASC – Suzhou**

Tel (86-512) 6661 5858  
Fax (86-512) 6661 6868

#### **ASC – Tianjin**

Tel (86-022) 2482 8625  
Fax (86-022) 2482 8600

### **Americas**

1 (818) 362-6711 or 1-800-AEROMIX

### **Europe and Middle East**

#### **ASC – Central Europe**

Tel 49 (40) 742 193 10  
Fax 49 (40) 742 139 69

#### **ASC – Middle East & India**

Tel (971) 4 883 9666  
Fax (971) 4 883 9665

#### **ASC – North Europe**

Tel 44 (0) 1388 770222  
Fax 44 (0) 1388 770288

#### **ASC – South Europe**

Tel 33 (0) 235 53 43 71  
Fax 33 (0) 235 53 54 44

Aerocron is a trademark of PRC-DeSoto International, Inc.

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

PRC-DeSoto International, Inc.  
12780 San Fernando Road  
Sylmar, CA 91342  
[www.ppgaerospace.com](http://www.ppgaerospace.com)

Issue Date: 8/15  
Lit: 4174