

Aerocron™ 2100 Anionic Epoxy Primer

TECHNICAL DATA SHEET

Product Description

Aerocron™ 2100 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 rate 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:

- ACRS2100 (resin component)
- ACPP2120 (pigment paste)
- ACCP2140 (anticorrosion paste)

Note: Please consult the Aerocron™ 2100 Process Control Document for blend ratio.

Specifications



Aerocron™ 2100 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.



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Product Compatibility:

Aerocron™ 2100 primer is compatible with the following topcoat specifications:

- AIMS 04-04-025
- BAMS 565-002
- BMS 10-11 Type II
- BS2X34B
- DMS2115
- GC130N
- GP110AEF
- MIL-PRF-85285 Type I & Type IV
- MMS420

Note: If a topcoat is required, Aerocron™ 2100 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™ 2100 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 materials conforming to MIL-DTL-5541 or equivalent 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™ 2100 Process Control Document.



Induction Time:

Not Required

Application Guidelines

Application:

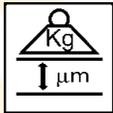
Consult the Aerocron™ 2100 Process Control Document.



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**Theoretical Coverage:**

12 square meters/liter at 25 microns dry film (504 square feet/gallon at 1 mil dry film)
Recommended dry film thickness; 15 to 30 microns (0.6 to 1.2 mils)

**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 93°C - 98°C (200°F - 208°F) metal temperature.

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

**VOC:**

| | |
|--|-----------------|
| Mixed, ready for use VOC (EPA method 24) | 143 grams/liter |
| ACRS2100 | 265 grams/liter |
| ACPP2120 | 150 grams/liter |
| ACCP2140 | 445 grams/liter |



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Flash point closed cup:

| | |
|----------|----------------|
| ACRS2100 | >93°C (>200°F) |
| ACPP2120 | 64°C (147°F) |
| ACCP2140 | 68°C (155°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.



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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

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
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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
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