

Product Group

Epoxy Primers

Characteristics



Product Information

Aerowave® 2001 is a chromated, water-based, 2-component amine cured epoxy primer.

- Water based technology
- Compatible with all products out of the Aerowave® Series
- Designed for optimal mixing properties for both manual and plural mixing application.
- Corrosion inhibiting
- Low VOC emission
- Low dry-film-weight (DFW); reduce operational costs
- Resistance to aircraft hydraulic fluids and chemicals

Aerowave® 2001 is a product part of the Aerowave® Series which utilizes the latest water based technology and sets the standard for minimum process times, reduced process cycle costs and environmental care.

Components



Hardener
Thinner or
Activator

Curing Solution 6005

Specifications



Qualified Product List

Airbus	AIMS 04.04.038
	AIMS 04.04.004
Bombardier	BAMS 565-001 Rev. A Grade D (performance)

For most recent up-date or missing specifications please check the qualified product list (QPL) on www.akzonobelaerospace.com

Surface Conditions



Cleaning

- Prime chemical conversion coatings and anodized parts in a fresh condition according the OEM guideline.
- Clean aged primer or finish and activate the substrate with e.g. Scotch-Brite™ type A very fine to a uniform matt surface.
- Remove dust with e.g. tack rags prior to application of the primer.

Instruction for Use



Mixing Ratio

	Volume (v/v)	Weight (w/w)
Aerowave® 2001	3 parts	100 parts
Curing Solution 6005	1 part	28 parts

- Allow products to acclimatize to room temperature before use.
- Homogenize Aerowave® 2001 till all pigment is uniformly dispersed before adding the hardener
- Add Curing Solution 6005 and stir the catalyzed mixture thoroughly for at least 60 seconds.
- Automated dispensing units in combination with plural mixing devises can be applied for Aerowave 2001.



Induction Time

Not applicable. The product can be used directly after mixing.



Initial Spraying
Viscosity
(21°C/70°F)

35 – 65 seconds ISO-Cup 4.
17 – 30 seconds Gardner Signature Zahn-Cup #2

Note: Stir or shake the *mixed* components thoroughly shortly before measuring the viscosity.



Potlife

21°C / 70°F – 6 hours
30°C / 86°F – 4 hours



Dry Film
Thickness
(DFT)

15 – 25 µm
0.6 – 1.0 mil



Note

The end of potlife is not visible by means of viscosity increase. Respect described potlife. Potlife relates to temperature.

Application Recommendations



Conditions

Temperature: 15 – 35°C
59 – 95°F
Relative Humidity: 25 – 80%



Note

Aerowave® 2001 may be applied in conditions outside of the the limits shown above. Care must be excercised to ensure a satisfactory result. Please contact your local ANAC representative to determine the proper application techniques when environmental conditions fall outside of the recommended range.



Equipment

Air 1.2 – 1.6 mm nozzle orifice
HVLP 1.2 – 1.6 mm nozzle orifice
Air Electrostatic* 1.2 – 1.5 mm nozzle orifice
Airless/Air Assist .009 - .013 inch, angle 40° – 60°



Note

*) Use Electrostatic spray equipment designed for application of water based products.

To avoid contamination of water based – solvent based coating products it is advised to use dedicated water- / solvent-based spray equipment. For application of water based products use non corrosive spray equipment (e.g. stainless steel).



Number of
Coats

Spray-apply a homogeneous, wet and closed coat.



Cleaning of
Equipment

Clean the equipment with water directly after use. If necessary, semi-cured material remaining on the equipment can be cleaned with Solvent Cleaning C28/15 or Solvent Cleaning 98068.



Note

The way of application, skills and experiences of the painter and surrounding conditions (temperature, relative humidity, airspeed) significantly affect the final appearance and dry film thickness. When using the product for the first time it is strongly recommended to apply some test panels first.

Physical Properties



Drying Times

	21°C/70°F - 55%	60°C/140°F*	80°C/176°F*
Surface dry	1 – 2 hr	20 min	10 min
Dry to handle	2 – 3 hr	n.a.	n.a.
Chemical resistant	48 hrs	45 min	30 min

*) Substrate surface temperature

When forced cured; allow the paint a 5 minutes ambient flash-off time with sufficient air movement before entering the oven in order to obtain the best results.

Recoat minimum When surface dry

Recoat maximum* 168 hours. If a drying time of 168 is exceeded recondition the surface with e.g. Scotch-Brite™ type A very fine

*) In combination with Aerowave Series products. In combination with solvent based products the maximal recoat time is 48 hrs without reconditioning.



Note

Curing of waterborne products depends on temperature, relative humidity and air flow. Increased temperatures, low RH and efficient airflow can decrease the drying times significantly.



Theoretical Coverage

29 m² per liter base material at 15 µm dry film thickness
1163 ft² per US gallon base material at 0.60 mil dry film thickness



Dry Film Weight

1.6 g/m²/µm
0.0083 lbs/ft²/mil



Volatile Organic Compounds

≤ 120 g/L (1.0 lb/gal) product ready to apply
≤ 250 g/L (2.1 lb/gal) exempt water according to ASTM D-3960



Gloss (60°)

Maximum 20 GU



Color (visual match)

Green RAL 6021
Green BAC452



Flash-point

Aerowave® 2001 >21°C / 70°F
Curing Solution 6005 >21°C / 70°F



Storage

Shelf life
(21°C/70°F and
55% RH)

Store the product dry and at a temperature between 5 and 25°C / 41 and 77°F. Stored in the original unopened containers.
Periodical short time exposure (max. 48 hrs at a time) to higher temperatures (max. 40°C / 104°F) will not negatively influence the shelf life of the products.

Aerowave® 2001	12 months
Curing Solution 6005	12 months

Safety Precautions

Comply with all local safety, disposal and transportation regulations. Check the Material Safety Data Sheet (MSDS) and label of the individual products carefully before using the products. The MSDS's are available on request.

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given is subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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