Aerowave 3003

Product Information

Technical Data Sheet

Product Group

Epoxy Top Coat

Characteristics



Aerowave 3003 is a low VOC, water-based, 2-component amine cured epoxy structural finish. - Water-based technology

- Compatible with all products out of the Aerowave Series
- Designed for optimal mixing properties for both manual and plural mixing application
- Low VOC emission
- Low dry-film-weight (DFW)
- Resistance to aircraft hydraulic fluids and chemicals

Aerowave 3003 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.

Base	Aerowave 3003
Curing Agent	Curing Solution 6007
Airbus	AIMS 04-04-003
Airbus	AIMS 04-04-040
Airbus	AIMS 04-04-045

Product specifications change constantly, to ensure the most accurate information regarding specifications, please check our online qualified product list (QPL) at aerospace.akzonobel.com/products.

- Observe the recoat limitations of the relevant primer.

- Remove oil, grease and other contaminations carefully prior to application of the finish.

 Clean aged primer and finish and recondition by sanding using grade P320 sandpaper or an aluminum oxide non-woven

abrasive pad to a uniform matt surface.

- Remove dust with e.g. tack rags just prior to application of the finish.

	Volume	Weight
Aerowave 3003	1 part	100 parts
Curing Solution 6007	1 part	73 parts

When mixing <1L dose by weight.

- Allow products to acclimatize to room temperature before use.

- Homogenize Aerowave 3003 till all pigment is uniformly dispersed before adding the hardener.
- Add Curing Solution 6007 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 3003.



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

35 – 65 seconds ISO Cup #4

17 – 30 seconds Gardner Signature Zahn Cup #2

(23°C/73°F)

Initial Spraying Viscosity

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Instruction for Use

Spray Application (Mix Ratio)



Qualified Product List

Specifications

Surface Conditions







Aerowave 3003

Note

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Įμm

The end of pot life is not visible by means of viscosity increase. Please respect described pot life, and mind that pot life depends on the temperature.

Entrapped air in the wet paint mixture will not negatively affect final appearance when spray applied.

Dry Film Thickness (DFT)

Application Recommendations

Pot life (23°C/73°F)



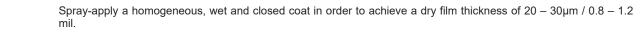
Note

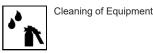


Equipment Recommendation



Number of Coats





Selecting the correct cleaning solvent for cleaning the spray equipment (gun, hoses, pumps) will prevent coagulation or clogging of the paint material inside the equipment due to incompatibility. Clean and rinse the equipment with water directly after use. If necessary semi-cured material can be cleaned with organic solvents like

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Stir or shake the mixed components thoroughly shortly before measuring the viscosity. Viscosity measurements are provided as guidelines only and are not to be used as quality control parameters. Certified information is provided by certification documentation available on request. Flow-cup viscosity measurement for Aerowave 3003 will not be reliable due to air introduction during the shaking process. Only measure the flow-cup viscosity when mixed with a toothless mechanical stirrer and air introduction during the mixing process is avoided as much as possible.

20 – 30 µm 0.8 - 1.2 mils

4 hours at 23°C / 73°F

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

Aerowave 3003 may be applied in conditions outside the limits shown above. Care must be exercised to ensure a satisfactory result. Please contact your local AkzoNobel Aerospace Coatings representative to determine the appropriate application techniques when environmental conditions fall outside of the recommended range.

Spray gun type	Product supply	Fluid Pressure	Nozzle orifice	Product flow	Dynamic air pressure at gun- inlet *
Conventional	NA	NA	1.2 – 1.5mm	350 mL/min ¹	4 – 4.5 bar / 58 – 65 psi²
HVLP / Next Generation	NA	NA	1.2 – 1.5mm	350 mL/min ¹	2 – 2.5 bar / 29 – 36 psi³
Air Atomizing (electrostatic)	NA	NA	1.2 – 1.5mm	350 mL/min⁴	4 – 4.5 bar / 58 – 73 psi²
Pressure Atomizing (electrostatic)	NA	NA	0.009 inch/60° 0.013 inch/60°	65 – 75 bar/1.02 kpsi 25 – 35 bar/0.43 kpsi	4 – 4.5 bar / 58 – 65 psi²

¹ Product Flow not applicable when using gravity/suction feed guns.

² Dynamic Air Pressure at gun-inlet measured with an open trigger.

³ General advice to meet the HVLP / next generation spray gun requirements,

please validate with your local authorities.

⁴ When using water-based products ensure you select suitable electrostatic equipment

To avoid contamination of water-based / solvent-based coating products, dedicated water- / solvent-based spray equipment is advised. To apply water-based products, use non-corrosive spray equipment (e.g., stainless steel).

Aerowave 3003

Note

Physical Properties

\bigcirc	Drying Times		23°C/73°F, 55% RH	60°C/140°F	80°C/176°F	
\Box		Surface Dry	30 minutes	15 minutes	10 minutes	
		Dry to Handle	2 hours	N/A	N/A	
		Chemical Resistant	48 hours	45 minutes	30 minutes	
		*Substrate surface temperature When forced cured, allow the paint 5-minute ambient flash-off time with enough air movement before entering the component into the oven in order to obtain the best results.				
		Recoat maximum* 168 hou grade P3	surface dry Irs. If a drying time of 168 hc 320 sandpaper or an alumin matt surface.	ours is exceeded recondition um oxide non-woven abrasiv	the surface with e pad to a	
				ination with solvent-based pr 8 hours without reconditioning		
and the	Note	Curing of waterborne produce RH and efficient airflow can			w. Increased temperatures, low	
M ²	Theoretical Coverage	17 m ² per liter ready to apply 712 ft ² per US gallon ready t				
Kg l µm	Dry Film Weight	1.6 g/m²/µm 0.0085 lbs/ft²/mil				
voc	Volatile Organic Compounds	< 120 g/L (1.0 lbs/gal) produ < 250 g/L (2.1 lbs/gal) exem		D-3960		
GU	Gloss (60°)	Minimum 75 GU				
٩	Color	M9001 Grey FSB16622 Grey				
	Flash Point	Aerowave 3003	>21°C / 70°	F		
		Curing Solution 6007	>21°C / 70°	F		

chemical composition, this material is compatible with water.

appearance of the coating.

cleaning solvent C 28/15, 98068 or Thinner C 25/90 S. In case of the switch from water-based to solvent-based always first clean and rinse with water, followed by two times rinsing with fresh Thinner C 25/90 S. Due to its

The quality of the application of all coatings will be influenced by the spray equipment chosen and the temperature, humidity, and air flow of the paint application area. When applying the product for the first time, it is recommended

that test panels be prepared to identify the best equipment settings to be used in optimizing the performance and

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Shelf life 5 - 35°C (41 - 95°F)	Aerowave 3003 Curing Solution 6007	12 months	
Safety Precautions	Comply with all local safety, disp	osal and transportation regulations. Check the Material Safety Data Sheet (MSD ts carefully before using the products. The MSDS's are available on request.	S)

Revision date: August 2024 (supersedes October 2023) - 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. Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel