

Aerodur Clearcoat UVR

Technical Data Sheet

Product Group

Polyurethane Top Coat

Characteristics



Product Information

Aerodur Clearcoat UVR is a universal 3-component, UV Resistant, high gloss polyurethane topcoat for application on exterior polyurethane decoration schemes.

- Extended durability of conventional polyurethane systems.
- Long lasting “wet look” appearance.
- No dirt retention.
- Easy to clean.
- Resistant to aircraft hydraulic fluids and chemicals.
- Base, hardener and Thinner 98064 comply to the German legislation VBF: A2 (flashpoint >21 °C).

Components



Base	Aerodur Clearcoat UVR
Hardener	Hardener S 66/22 R
Thinner	Thinner C 25/90 S
Thinner	Thinner 98064 (warm conditions)
Thinner	Thinner 96184 (warm conditions)

Specifications



Qualified Product List

Airbus	AIMS 04-04-022
Airbus	ASNA 4196
British Aerospace Airbus	ABP 4-2128
Embraer	MEP 10-058
Fokker	TH 5.711
Fokker	TH33.0150
Leonardo	MDL 5051
Saab	STD 175429
Shorts	SMS 92 GR B

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

Surface Conditions



Surface Preparation/
Cleaning

- Observe the recoatability limits of the relevant finish.
- Remove oil, grease and other contaminants prior to application of the finish.
- Recondition aged primers or topcoats with e.g. Scotch-Brite® type A very fine till a uniform matt surface.
- Remove dust with e.g. rack rags prior to application of the finish.

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Instruction for Use

	Spray Application (Mix Ratio)									
	<table><tr><th></th><th>Volume</th></tr><tr><td>Aerodur Clearcoat UVR</td><td>100 parts</td></tr><tr><td>Hardener S 66/22 R</td><td>100 parts</td></tr></table>			Volume	Aerodur Clearcoat UVR	100 parts	Hardener S 66/22 R	100 parts		
	Volume									
Aerodur Clearcoat UVR	100 parts									
Hardener S 66/22 R	100 parts									
	* Thinner options: Thinner C 25/90 S, Thinner 98064 (warm conditions), Thinner 96184 (warm conditions) Reduce to spraying viscosity with: 50 – 75 parts Thinner C 25/90S, Thinner 98064 or Thinner 96184. - Allow products to acclimatize to room temperature before use. - Stir or shake Aerodur Clearcoat UVR thoroughly before adding hardener. - Add Hardener S 66/22 R and stir the catalyzed mixture thoroughly. - Add thinner and stir again till a homogeneous mixture.									
	Initial Spraying Viscosity (25°C/77°F)	36 – 42 seconds ISO Cup #3 27 – 29 seconds Gardner Signature Zahn Cup #1								
	Note	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.								
	Pot life	8 hours								
	Dry Film Thickness (DFT)	35 – 45 µm 1.4 – 1.8 mils								
Application Recommendations										
	Conditions	<table><tr><td>Temperature:</td><td>15 – 35 °C 59 – 95 °F</td></tr><tr><td>Relative Humidity:</td><td>35 – 75 %</td></tr></table>	Temperature:	15 – 35 °C 59 – 95 °F	Relative Humidity:	35 – 75 %				
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	Note	Equipment Recommendations <table><tr><td>Air</td><td>1.4 mm nozzle orifice</td></tr><tr><td>HVLP</td><td>1.4 mm nozzle orifice</td></tr><tr><td>Air Electrostatic</td><td>1.2 mm nozzle orifice</td></tr><tr><td>Airless Electrostatic</td><td>6.11 – 6.13, (.011 - .013 inch) angle 60°</td></tr></table>	Air	1.4 mm nozzle orifice	HVLP	1.4 mm nozzle orifice	Air Electrostatic	1.2 mm nozzle orifice	Airless Electrostatic	6.11 – 6.13, (.011 - .013 inch) angle 60°
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	Cleaning of Equipment	Solvent Cleaning C 28/15 or Solvent Cleaning 98068.								
	Note	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 in order to identify the best equipment settings to be used in optimizing the performance and appearance of the coating.								

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Physical Properties

	Drying Times		
		Dust Free	3 - 4 hours
		Dry to Tape	10 - 12 hours
		Recoatable Min	6 hours
		Recoatable Max	24 hours If a drying time of 24 hours is exceeded, e.g. Scotch-Brite® Type A very fine.
		Force Cure	Flash off minimum 20 minutes
		Dry to Handle & Transport	4h curing time at 60°C * *Note : the part should be cured 4h at 60°C (depending of the size of the part, ramp up of the part should be included in the oven time)
	Theoretical Coverage	18 m2 per liter base material at 35 mm dry film thickness 722 ft2 per US gallon base material at 1.4 mils dry film thickness	
	Dry Film Weight	1,1 g/m2/μm 0,0057 lbs/ft2/mil	
	Gloss (60°)	Minimum 93 GU	
	Color	Clear	
	Flash Point	Aerodur Clearcoat UVR	>21°C / 70°F
		Hardener S 66/22 R	>21°C / 70°F
		Thinner C 25/90 S	<21°C / 70°F
		Thinner 98064 (warm conditions)	>21°C / 70°F
		Thinner 96184 (warm conditions)	<21°C / 70°F
Shelf life		Aerodur Clearcoat UVR	24 months
Shelf life 5 - 35°C (41 - 95°F)		Hardener S 66/22 R	24 months
		Thinner C 25/90 S	36 months
		Thinner 98064 (warm conditions)	36 months
		Thinner 96184 (warm conditions)	36 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.

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Revision date: August 2026 (supersedes February 2019) - 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