Aerodur Clearcoat UVR

Technical Data Sheet

Product Group

Polyurethane Topcoats

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 >21ºC)

Components

Curing Solution
Thinner / Activator

Hardener S 66/22 R
Thinner C 25/90 S (normal conditions, flashpoint <21ºC)
Thinner 98064 (warm conditions, flashpoint >21ºC)
Thinner 96184 (warm conditions, flashpoint <21°C)

Specifications

Qualified Product List

Airbus	AIMS 04.04.022
Embraer	MEP 10-058

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

Surface Conditions

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

Mixing Ratio (volume)

100 parts	Aerodur Clearcoat UVR
100 parts	Hardener S 66/22 R

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.

Induction Time

15 – 30 minutes after mixing.

Initial Spraying Viscosity (25ºC/77ºF)

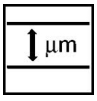
36 – 42 seconds ISO-Cup 3
27 – 29 seconds Gardner Signature Zahn-Cup #1.

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 (25ºC/77ºF)

8 hours.



Dry Film Thickness (DFT)

35 – 45 micron (µm)
1.4 – 1.8 mils

Application Recommendations

Conditions

Temperature:	15 – 35°C 59 – 95°F
Relative Humidity:	35 – 75%

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Equipment	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 60º
Number of Coats	Apply an even wet closed coat, followed after 30 minutes flash-off time by one cross-coat
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.

Physical Properties

Drying Times (21ºC / 77ºF)	
Dust free	3 – 4 hours
Dry to tape	10 – 12 hours
Recoatable minimum	6 hours
Recoatable maximum	24 hours, If a drying time of 24 hours is exceeded, condition surface with e.g. Scotch-Brite® type A very fine.
Theoretical Coverage	18 m^2 per liter base material at 35 µm dry film thickness 722 ft^2 per US gallon base material at 1.4 mil dry film thickness
Dry Film Weight	1,1 g/m^2/µm 0,0057 lbs/ft^2/mil

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Gloss (60º)	Minimum 93 GU
Color	Clear
Flash-point	Aerodur Clearcoat UVR >21ºC / 70ºF Hardener S 66/22 R >21ºC / 70ºF Thinner C 25/90 S <21ºC / 70ºF Thinner 98064 >21ºC / 70ºF Thinner 96184 <21ºC / 70ºF
Storage	Store the product dry and at a temperature between 5 and 25ºC / 41 and 77ºF. Stored in the original unopened containers.
Shelf life 5 - 38°C (40 - 100°F)	Aerodur Clearcoat UVR 24 months Hardener S 66/22 R 24 months Thinner C 25/90 S 36 months Thinner 98064 36 months Thinner 96184 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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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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