

Product Group

Polyurethane Topcoats

Characteristics



Product Information

Aerodur® Finish C 21/100 is a universal 2 or 3-component, high gloss polyurethane finish for interior and exterior use.

- Excellent gloss retention
- Resistant to staining
- Resistant to aircraft hydraulic fluids and chemicals

Components



Hardener Thinner or Activator

3-Component Application:

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

2-Component Application

Hardener 90120 (for plural mixing systems, in combination with Aerodur® Finish C 21/100 BAC707/M9001)

Specifications



Qualified Product List

Airbus	AIMS 04.04.003
British Aerospace	BAEP 3529 (S 26.3529)

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

Surface Conditions



Cleaning

- Observe the recoatability limits of the relevant primer.
- 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. tack rags prior to application of the finish.

Instruction for Use



Mixing Ratio
3 Component version
(volume)

100 parts	Aerodur® Finish C 21/100
100 parts	Hardener S 66/22 R

Reduce to spraying viscosity with:

50 – 75 parts Thinner C 25/90S, Thinner 98064 or Thinner 98164





- Allow products to acclimatize to room temperature before use
- Stir or shake Aerodur® Finish C 21/100 till all pigment is uniformly dispersed before adding hardener.
- Add Hardener S 66/22 R and stir the catalyzed mixture thoroughly.
- Add thinner and stir again till a homogeneous mixture.








Mixing Ratio
2 Component version
(volume)

100 parts	Aerodur Finish C21/100
150 parts	Hardener 90120


- Allow products to acclimate to room temperature before use
- Stir or Shake Aerodur® Finish C 21/100 till all pigment is uniformly dispersed before adding hardener
- The 2 component version has been developed for use with plural mixing systems







	Induction Time	Not applicable
	Initial Spraying Viscosity (21°C/70°F)	36 – 42 seconds ISO-Cup 3 27 – 29 seconds Gardner Signature Zahn-Cup #1
	Potlife (21°C/70°F)	8 hours (Hardener S66/22R) 6 hours (Hardener 90120)
	Dry Film Thickness (DFT)	50 – 75 micron (µm) for non-tinted white and BAC 7067/M8001 2 – 3 mils for non-tinted white and BAC 7067/M8001 25 – 30 micron (µm) for BAC 707/M9001 1 – 1.2 mils for BAC 707/M9001

Application Recommendations

	Conditions	Temperature: 15 – 35°C 59 – 95°F Relative Humidity: 35 – 75%
	Equipment	Air 1.4 – 1.8 mm nozzle orifice HVLP 1.4 – 1.8 mm nozzle orifice Air Electrostatic 1.2 mm nozzle orifice Airless Electrostatic 6.11 – 6.13, (.011 - .013 inch) angle 60°
	Number of Coats	Apply an even wet coat, followed after 45 minutes flash-off time by a cross-coat or by two single coats with 30 minutes flash-off time between the coats. If 96184 thinner is used, Aerodur Finish C 21/100 color white has to be applied in three cross coats with 30 – 45 minutes solvent flash-off time in between.
	Cleaning of Equipment	Solvent Cleaning C 28/15 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)	Dust free 2 hours Dry to tape 6 - 8 hours Recoatable minimum 4 hours, 6 hours for decoration colors Recoatable maximum 72 hours. If a drying time of 72 hours is exceeded, condition surface with e.g. Scotch-Brite™ type A very fine. Forced drying 30 minutes flash-off followed by 1 hour at 80°C or 2 hours at 60°C.
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	Theoretical Coverage	16 m ² per liter base material at 50 µm dry film thickness 642 ft ² per US gallon base material at 1.8 mil dry film thickness												
	Dry film weight	1,5 g/m ² /µm 0,0078 lbs/ft ² /mil												
	Gloss (60°)	Minimum 90 GU												
	Color	BAC707/M9001 BAC7067/M8001												
	Flash-point	<table border="0"> <tr> <td>Aerodur® Finish C 21/100</td> <td><21°C / 70°F</td> </tr> <tr> <td>Hardener S 66/22 R</td> <td>>21°C / 70°F</td> </tr> <tr> <td>Hardener 90120</td> <td><21°C / 70°F</td> </tr> <tr> <td>Thinner C 25/90 S</td> <td><21°C / 70°F</td> </tr> <tr> <td>Thinner 98064</td> <td>>21°C / 70°F</td> </tr> <tr> <td>Thinner 96184</td> <td><21°C / 70°F</td> </tr> </table>	Aerodur® Finish C 21/100	<21°C / 70°F	Hardener S 66/22 R	>21°C / 70°F	Hardener 90120	<21°C / 70°F	Thinner C 25/90 S	<21°C / 70°F	Thinner 98064	>21°C / 70°F	Thinner 96184	<21°C / 70°F
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	Storage	<p>Store the product dry and at a temperature between 5 and 25°C / 41 and 77°F. Stored in the original unopened containers.</p> <table border="0"> <tr> <td>Aerodur® Finish C 21/100</td> <td>24 months</td> </tr> <tr> <td>Hardener S 66/22 R</td> <td>24 months</td> </tr> <tr> <td>Hardener 90120</td> <td>12 months</td> </tr> <tr> <td>Thinner C 25/90 S</td> <td>36 months</td> </tr> <tr> <td>Thinner 98064</td> <td>36 months</td> </tr> <tr> <td>Thinner 96184</td> <td>36 months</td> </tr> </table>	Aerodur® Finish C 21/100	24 months	Hardener S 66/22 R	24 months	Hardener 90120	12 months	Thinner C 25/90 S	36 months	Thinner 98064	36 months	Thinner 96184	36 months
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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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