

Product Group

Polyurethane Topcoats

Characteristics



Product Information

Aerodur® ARC is a 3-component polyurethane abrasion resistant coating.

- Minimal abrasion on areas highly exposed to wear and friction.
- Minimal dirt pick-up
- Impact and stone chip resistant (rough field operations)
- Rapid film build-up with standard air spray techniques.

Components



Hardener Thinner or Activator

Hardener S 66/22 R

Thinner C 25/90 S

Specifications



Qualified Product List

Airbus	AIMS 04-04-007 (performance)
British Aerospace/ AVRO	BAEP 3536
Fokker	TH 5.724/1
Embraer	MEP 10-054

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/topcoat.
- Remove oil, grease and other contaminants prior to application of Aerodur® ARC.
- 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 Aerodur® ARC.

Instruction for Use



Mixing Ratio (volume)

100 parts	Aerodur® ARC
100 parts	Hardener S 66/22 R

Reduce to spraying viscosity with:

Max. 25 parts Thinner C 25/90S

- Allow products to acclimatize to room temperature before use
- Stir or shake Aerodur® ARC 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.



Induction Time

15 – 30 minutes after mixing



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

25 – 35 seconds	ISO-Cup 4
13 – 17 seconds	Gardner Signature Zahn-Cup #2.



Potlife
(21°C/70°F)

4 hours.



Dry Film
Thickness
(DFT)

125 – 150 μm
5 – 6 mils

**Application
Recommendations**



Conditions

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



Note

Aerodur® ARC may be applied in conditions outside of the the limits shown above. Care must be excersised 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 1.4 – 1.8 mm nozzle orifice
HVLP 1.4 – 1.8 mm nozzle orifice



Number of Coats

Apply 2 cross coats with 1 till 2 hours 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 hard 6 hours
Forced cure 30 minutes flash off time, followed by 1 hour at 80°C or 2 hours at 60°C







Theoretical
Coverage

6.4 m² per liter base material at 125 μm dry film thickness
257 ft² per US gallon base material at 5 mils dry film thickness



Dry Film Weight

1.4 g/m²/μm

	Gloss (60°)	Maximum 30 GU.	
	Color	Grey and off-white	
	Flash-point	Aerodur® ARC	>21°C / 70°F
		Hardener S 66/22 R	>21°C / 70°F
		Thinner C 25/90 S	<21°C / 70°F
	Storage	Store the product dry and at a temperature between 5 and 25°C / 41 and 77°F. Stored in the original unopened containers.	
		Aerodur® ARC	12 months
		Hardener S 66/22 R	24 months
		Thinner C 25/90 S	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.

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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