

# Aerodur ARC

## Technical Data Sheet

### 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



Curing Solution  
Thinner /  
Activator

Hardener S 66/22 R

Thinner C 25/90 S

### Specifications



Qualified  
Product List

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.akzonobel.com/aerospace](http://www.akzonobel.com/aerospace)

### 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.

# Aerodur ARC

## Instruction for Use



Mixing Ratio  
(volume)

100 parts  
100 parts

Aerodur ARC  
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.



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  
(21°C/70°F)

4 hours



Dry Film  
Thickness  
(DFT)

125 – 150 μm  
5 – 6 mils

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## 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 excercised to ensure a satisfactory result. Please contact your local AkzoNobel Aerospace Coatings 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 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  
(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 m<sup>2</sup> per liter base material at 125 µm dry film thickness  
257 ft<sup>2</sup> per US gallon base material at 5 mils dry film thickness



Dry Film Weight

1.4 g/m<sup>2</sup>/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.

Shelf life  
5 - 38°C  
(40 - 100°F)

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.

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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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