

Aviox Matt Clear

Technical Data Sheet

Product Group

Polyurethane Topcoats

Characteristics



Product
Information

Aviox Matt Clear is a 2 component high solid, durable, and matt polyurethane clear-coat for application on exterior decoration schemes in order to obtain anti-glare properties.

- Extended durability / UV resistance
- Less dirt retention
- Easy to clean
- Resistance to aircraft hydraulic fluids and chemicals
- High solids

Aviox Matt Clear is a product part of the Aviox Advanced Series which utilizes the latest high solid technology and sets the standard for minimum process times and reduced process cycle costs

Components



Curing Solution
Thinner or
Activator

Hardener 90150
Activator 99341

Specifications



Qualified
Product List

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

Surface Conditions



Cleaning

Surface pretreatment is an essential part of the painting process.

- Minimal overcoat time of the topcoat with the clear-coat is 4hrs.
- Observe the maximal re-coatability time of the relevant topcoat.
- Apply Aviox Matt Clear only on a clean finish. Remove oil, grease and other contamination before application.
- Recondition aged topcoats with e.g. Scotch-Brite® type A very fine to a uniform matt surface.
- Remove dust with e.g. tack rags just prior to application of Aviox Matt Clear.

Aviox Matt Clear

Instruction for Use



Mixing Ratio
(volume)

100 parts
25 parts

Aviox Matt Clear
Hardener 90150

If required, reduce to spraying viscosity with:
Max. 10 parts Activator 99341.

- Allow products to acclimatize to room temperature before use.
- Stir or shake Aviox Matt Clear thoroughly to obtain a homogeneous product before adding hardener.
- Add Hardener 90150 and stir the catalyzed mixture thoroughly.
- Add the Activator and stir the catalyzed mixture again thoroughly.



Induction Time

Not applicable, the product can be used directly after mixing.



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

40 – 60 seconds ISO-Cup 4.
20 – 28 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
(25°C/77°F)

2 hours.



Dry Film
Thickness
(DFT)

40 – 50 micron (μm)
1,6 – 1,0 mils



Note

The application and mixing characteristics of High Solid products differ from conventional products. Mix base and hardener for at least 2 minutes thoroughly. The high solid content causes a rapid film build up. Mixed product tends to settle. Keep the mixture homogeneous during application.

Aviox Matt Clear

Application Recommendations



Conditions

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



Note

Aviox Matt Clear may be applied in conditions outside of the limits shown above. Care must be exercised to ensure a satisfactory result. Please contact your local AkzoNobel Aerospace Coatings representative to determine the proper application techniques and choice of activators when environmental conditions fall outside of the recommended range.

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.



Equipment

Air 1.4 mm nozzle orifice
HVLP 1.4 mm nozzle orifice



Number of Coats

Apply one full wet coat.



Cleaning of Equipment

Solvent Cleaning C 28/15 or Solvent Cleaning 98068.








Physical Properties



Drying Times
(25 +/- 2°C / 77
+/- 2°F, 55 +/-
5% RH)

Dry to dust 2 hours
Dry to tape 6 – 10 hours

Aviox Matt Clear

	Theoretical Coverage	13 m ² per liter base material ready to apply at 40µm dry film thickness. 521 ft ² per US gallon base material ready to apply at 1.6 mil dry film thickness.	
	Dry Film Weight	1.2 g/m ² /micron 0.0062 lbs/ft ² /mil	
	Volatile Organic Compounds	Max 420 g/l Max 3.5 lb/gal	
	Gloss (60°)	Maximum 5 GU / 9 GU	
	Color	Clear	
	Flash-point	Aviox Matt Clear	<21°C /70°F
		Hardener 90150	>21°C /70°F
		Activator 99341	<21°C /70°F
	Storage	Store the product dry and at a temperature between 5 and 38°C / 40 and 100°F per AkzoNobel Aerospace Coatings specification. Store in the original unopened containers. Storage temperature may vary per OEM specification requirements. Refer to container label for specific storage life information.	
	Shelf life	Aviox Matt Clear	12 months
	5 - 38°C	Hardener 90150	24 months
	(40 - 100°F)	Activator 99341	36 months

Aviox Matt Clear

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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Scotch-Brite® is a trademark of 3M.
