Aerodur Clear 43022 / Clear Fluo 43023
Technical Data Sheet

Product Group

Clear coat

Characteristics

Product Information

Aerodur Clear 43022 and Aerodur Clear Fluo 43023 are a one component polyurethane finish for printed circuits and component protection.

Components

Base material	43022/43023
Thinner	D4064.

Specifications

Qualified Product List

Dassault	DGQT 1.7.0.0138
Eurocopter	ECS-L 2228

Product specifications are constantly changing. To ensure the most accurate information regarding specifications, please check our online qualified product list (QPL) at aerospace.akzonobel.com/products

Surface Conditions

Cleaning

- Remove oil, grease and other contaminations prior to application of the finish.
- Wash carefully the printed circuit/components, or previous Aerodur Clear 43022/43023 layer with Thinner D4064

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Rijksstraatweg 31, 2171 AJ Sassenheim, The Netherlands - Phone (31) 71 308 2905
Online : aerospace.akzonobel.com

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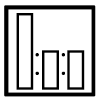
Instruction for Use



Mixing Ratio (volume)

Base 43022/43023	100 parts
Thinner D4064	25 to 35 parts – Spray Application
	5 to 15 parts – Dip Application

- Brush application: apply as delivered.
- Spray gun application: add 25 to 35 parts of Thinner D4064.
- Dip application: add 5 to 15 parts Thinner D4064.
- Allow products to acclimatize to room temperature before use. Stir before application.

Induction Time

Not Applicable.

Initial Spraying Viscosity (23ºC/73ºF)

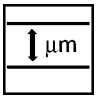
- Brush application, as delivered.
- Spray gun application: 17 ± 2s (ISO cup-5; 10% – 20% thinner D4064)
- Dip application: 30 ± 2s (ISO cup-5; 0% – 10% thinner D4064)

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)

30 µm recommended
1.2 mils

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Application Recommendations

	Conditions	Temperature:	23°C (recommended)
		Relative Humidity:	50% (recommended)
	Note	Aerodur Clear 43022 and Aerodur Clear Fluo 43023 may be applied in conditions outside the limits shown above. Care must be exercised to ensure a satisfactory result. Please contact your local AkzoNobel Aerospace Coatings representative to determine the appropriate application techniques when environmental conditions fall outside of the recommended range.	
	Equipment	Paint brush. Spray gun. Dip application.	
	Number of Coats	To achieve the 30 µm recommended by spray application, apply one closed coat of Aerodur Clear 43022/43023. Allow 1hr to 4hrs flash-off followed by a second closed coat of Aerodur Clear 43022/43023.	
	Note	1C polyurethane is sensitive to in-can gel formation. It is recommended to filter material over 125 µm filter before application to obtain best performance.	
	Cleaning of Equipment	Thinner D4064.	
	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.	

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When applying the product for the first time, it is recommended that test panels be prepared to identify the best equipment settings to be used in optimizing the performance and appearance of the coating.

Physical Properties

Drying Times (23ºC / 73ºF, 55% RH)

	Ambient	70°C	90°C
Dust Free	1 hr	30 min	30min
Dry to Handle	4 hrs	30 min	30 min
Dry Hard	5 hrs	30 min	30 min

Aerodur Clear 43022/43023 can be forced cured after 20 min flash-off at ambient conditions.

Theoretical Coverage

15.8 m² per liter base material at 30 µm dry film thickness.

Volatile Organic Compounds

Aerodur Clear 43022:
463 g/L

Aerodur Clear Fluo 43023:
465 g/L

Gloss (60º)

80 GU

Color

Clear

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Flash-point

Aerodur Clear 43022	14ºC
Aerodur Clear Fluo 43023	14ºC
Thinner D4064	26°C

Storage

Store the product dry and at a temperature between 5ºC and 38ºC / 40ºF and 100ºF per AkzoNobel Aerospace Coatings specification. Store in the original unopened containers. Storage temperature and shelf life may vary per OEM specification requirements. Refer to container label for specific storage life information.

Shelf life
5°C - 38°C
(40°F - 100°F)

Aerodur Clear 43022	12 months
Aerodur Clear Fluo 43023	12 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.

Issue date: July 2021 (supersedes November 2020) - 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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