

Optidur 7100

Polyurethane Tie Coat

Technical Data Sheet

Product Group

Polyurethane Tie Coat

Characteristics



Product
Information

This polyurethane Tie Coat is a part of our high performance Optidur coating systems designed for the finishing of stained or exotic woods. The product is designed to improve the adhesion between the Optidur 8000, 8200 or 9000 and wood substrates that may contain oil blocking properties.

Note: Please contact your AkzoNobel Aerospace representative for further information on choosing the appropriate product system components (stack-up) for your application.

Components



Base, Curing
Solution

Base 710-001A

Curing Solution 710-001B

Specifications



Qualified
Product List

AkzoNobel ANAC Specification

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

- Surface pretreatment is an essential part of the coating process
- Wood must be sanded with a 120 or 150 grit paper and free of dust and all contaminants. Plastic substrates should be scuffed with Scotch Brite to improve adhesion. Substrates that cannot be sanded should be wiped clean and degreased if possible.

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Instruction for Use

	Mixing Ratio (volume)	2.0 parts (2 gallons) 1.0 parts (1 gallons)	Base 710-001A Curing Solution 710-001B
	Note	Note: Once mixed, this product will contain isocyanates. Take the necessary precautions for the handling and use of this product.	
	Induction Time	None	
	Initial Spraying Viscosity (25°C/77°F)	28 seconds at 25°C #4 Zahn signature cup	
	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)	3 hours	
	Dry Film Thickness (DFT)	25.4 micron (mm) 1 mil	Note: Total dry film build of the tie coat should not exceed 1 dry mil. The total system build will be dependent upon the build coat and topcoat applied.

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Application Recommendations

	Conditions	<p>Temperature: 18°C and above (64°F and above)</p> <p>Relative Humidity: 65% and below</p>
	Note	<p>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.</p>
	Equipment	<p>1.6 – 1.8 tip size [HVLP and Compliant guns] 27-32 PSI at the spray gun</p>
	Number of Coats	<p>Apply 2 to 4 wet mills on a sanded surface. Let dry for 30 to 60 minutes and then apply a desired build coat or topcoat. If the drying time exceeds 4 hours, then sanding is required to keep good adhesion</p>
	Cleaning of Equipment	<p>Flush equipment immediately after use with lacquer thinner.</p>

Physical Properties

	Drying Times	<p>At 20°C (68°F)</p> <p>Tack Free Time: 30-60 minutes</p> <p>Dry to Sand: 4 hours</p> <p>Dry to to Stack: 8 Hours</p> <p>At 50°C (122°F)</p> <p>Tack Free Time: 5-10 minutes</p> <p>Dry to Sand: 20-30 minutes</p> <p>Dry to to Stack: 4 Hours</p>
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Theoretical
Coverage

172.1 m² per liter ready to apply at 25 µm dry film thickness
1548.8 ft² per US gallon ready to apply at 1.0 mil dry film thickness



Dry Film Weight

39.8 g/m²/25 micron
0.008 lbs/ft²/1.0 mil



Volatile Organic
Compounds

Max 700 g/l admixed
Max. 5.83 lb/gal



Gloss (60°)

85 – 99 GU



Color

Amber



Flash-point

710-001A -6°C / 21°F
710-001B -6°C / 21°F



Storage

Store the product dry and at a temperature between 5 - 38°C/40 - 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
5 - 38°C
(40 - 100°F)

12 months per AkzoNobel Aerospace Coatings commercial specification. Shelf life may vary due to OEM specification requirements. Refer to container label for specific shelf-life information.

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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.

Issue date: May 2025 (supersedes February 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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