

# Optidur 9200 Clear Coat

## Technical Data Sheet

### Product Group

Cabin Coatings

### Characteristics



Product  
Information

Optidur 9200 Clear Coat is a 2-component high quality acrylic polyurethane topcoat with water white clarity, non-yellowing formulation providing the highest gloss with an impressive distinction of image (DOI).

The material is specifically formulated to obtain premium performance with respect to hardness, durability, abrasion, scratch and chemical resistance.

Product is part of the Optidur Series which utilizes the latest resin technology and sets the standard for minimum process times, reduced process cycle costs and environmental care.

### Components



Base	Optidur 920-001A
Curing Solution	Optidur 920-001B
Thinner	Optidur 920-001C
Additive	FR-1100

### Specifications



Qualified Product  
List

Flammability F.A.R. / J.A.R 25.853(a) App.F Pt. I(a)(1)(i) 60s\*

\*Compliance is dependent on flame retardant and amount added. Please contact your local AkzoNobel Aerospace Coatings representative for more detailed information.

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

### Surface Conditions



Cleaning

- Product is compatible with other products out of the Optidur Series.
- Optidur 9200 Clear Coat is designed to be applied over properly cured and sanded Optidur 7001 Tie Coat and/or Optidur 8300 UV High Gloss Sealer.
- Remove oil, grease and other contaminations carefully using an appropriate mild cleaning solvent like isopropyl alcohol.
- Remove dust with clean tack rags or equivalent prior to application of Optidur 9200.

# Optidur 9200 Clear Coat

- Optidur 9200 Clear Coat may also be applied over FRS-40 topcoat colors. Follow the recommended guidelines in the FRS-40 TDS for recoat times.

## Instruction for Use



Mixing Ratio  
(volume)

Optidur 920-001A  
Optidur 920-001B  
Optidur 920-001C  
FR-1100

Volume (v/v)

100 parts  
100 parts  
10-15% depending on application.  
\* FR quantities may vary based on requirements.  
See AkzoNobel representative.

- FR-1100 is an optional flame retardant that may be added depending on the type of substrate and flammability requirements.
- Allow products to acclimatize to room temperature before use.
- Stir the Optidur 9200 base thoroughly to obtain a homogenized product.
- Add the Curing Solution and stir the catalyzed mixture thoroughly.
- Add the Thinner and stir the catalyzed mixture again thoroughly.
- Add FR-1100 and stir the mixture thoroughly for at least 2 minutes.



Induction Time

Not applicable.



Initial Spray  
Viscosity  
(25°C/77°F)

18-22 seconds with #2 Signature Zahn



Pot life  
(25°C/77°F) –  
55% RH)

Pot life is 4 hrs.



Dry Film  
Thickness  
(DFT)

50 – 100 μm  
2 – 4 mils

## Optidur 9200 Clear Coat

### Application Recommendations



Conditions

Temperature: 15 - 35°C  
59 - 95°F  
Relative Humidity: 25 - 75%



Note

Optidur 9200 Clear Coat 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  
Recommendation

HVLP / Next Generation, 1.4 – 1.6 mm tip size, air pressure\* - 2-2.5 bar / 29-36 psi\*\*

\*Measured with an open trigger

\*\*General advice to meet the HVLP / next-generation spray gun requirements. Please validate with your local authorities.



Number of Coats

Apply a closed wet coat of 50 – 75 µm (2 – 3 mils) wet film followed by 10-15 minutes flash-off time at ambient conditions. Apply a second closed wet coat to achieve the recommended dry film thickness. Allow a flash-off time of 20-30 minutes at ambient conditions before force curing.

Flash-off time refers to the elapsed time between the start of the first coat application and the start of the second coat application.



Cleaning of  
Equipment

Clean equipment with Acetone directly after use.



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.

# Optidur 9200 Clear Coat

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

21 °C / 70 °F, 55% RH

60 °C / 140 °F

Tack Free  
Dry-to-Sand  
Dry-to-Stack

60 min  
4 hours  
24 hours

30 min  
30 min  
30 min

Flash-off times and dry times will vary depending on combinations of temperature, humidity, and airflow. Temperature, wet film thickness, and flash-off time can greatly impact the final quality, so it is recommended to adhere to the application guidelines above.



Theoretical  
Coverage

21.6 m<sup>2</sup> per liter ready to apply at 25 µm dry film thickness  
880 ft<sup>2</sup> per US gallon ready to apply at 1 mil dry film thickness



Dry Film Weight

27.6 g/m<sup>2</sup>/25 µm  
0.006 lbs/ft<sup>2</sup>/mil



Volatile Organic  
Compounds

Maximum 407 g/l  
Maximum 3.4 lbs/gal



Gloss (60°)

90 GU



Color

Clear

## Optidur 9200 Clear Coat



Flash-point

Optidur 920-001A	4°C / 39.2°F
Optidur 920-001B	125 - 146°C / 257 - 294.8°F
Optidur 920-001C	33°C / 91.4°F
FR-1100	-9°C / 15.8°F



Storage

Store the product dry and at a temperature between 5 and 21°C / 41 and 70°F 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.

Always Rotate Stock.

Shelf life	Optidur 920-001A	12 Months
5 - 21°C	Optidur 920-001B	6 Months
(41 - 70°F) / 55%	Optidur 920-001C	24 Months
RH	FR-1100	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: October 2023 (supersedes None)- 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. Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel.