

# Optidur 8001 UV Sealer

## Technical Data Sheet

### Product Group

Cabin Coatings

### Characteristics



Product  
Information

Optidur 8001 UV Sealer is a 1-component high quality, Ultra Violet Reactive Coating (UV), used as a sealer / primer build coat on all types of solid wood and veneer meant for interior use. Its special formulation ensures excellent hold-out for subsequent coating.

UV cured polyurethane modified resins provide the basis for Optidur 8001 UV Sealer. These resins chemically combine to form the backbone of the final coating. The material is specifically formulated to obtain premium performance with respect to hardness, durability, abrasion, scratch and chemical resistance.

- Zero VOC
- Excellent adhesion on wood
- Good filling properties
- Excellent scratch resistance
- Excellent resistance to dry heat and fluids
- Suited for roller coating application

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 material	Optidur 8001 (801-001A)
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*
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\*Compliance is dependent on flame retardant and amount added. Please contact your local AkzoNobel Aerospace Coatings representative for more detailed information.

# Optidur 8001 UV Sealer

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 8001 UV Sealer is designed to be applied over properly cured and sanded Optidur 7001 Tie Coat and/or Optidur 6000 UV 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 8001.

## Instruction for Use



Mixing Ratio  
(volume)

	Volume (v/v)	Weight (w/w)
Optidur 8001 (801-001A)	100 parts	100 parts
FR-1100	5 - 10 parts	5 - 10 parts

- 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 or shake the Optidur 8001 base thoroughly to obtain a homogenized product.
- Add FR-1100 and stir the mixture thoroughly for at least 2 minutes.
- Mechanical mixing/stirring is preferred, or shake the mixture thoroughly on a paint shaker for 60 seconds.



Induction Time

Not applicable.



Pot life  
(25°C/77°F)

Not applicable.



Dry Film  
Thickness  
(DFT)

20 – 250 µm  
0.8 – 10 mils

# Optidur 8001 UV Sealer



Note

Review SDS for proper Personal Protective Equipment (PPE).

## Application Recommendations



Conditions

Temperature: 15 - 35°C  
59 - 95°F  
Relative Humidity: 25 - 85%



Note

Optidur 8001 UV Sealer 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

Apply Optidur 8001 UV Sealer by Roll Coater.  
- 30-50 durometer roll hardness  
- Reverse operation of doctor roll is preferable (doctor blade required).



Application

- Apply 1.8 – 2.8 grams per square foot per pass.
- Max recommended build is 4.0 grams per square foot per pass.
- UV Cure with 200 – 400 millijoules (UVA) energy.

When performing multiple passes, it is recommended to cure the 1<sup>st</sup> and 2<sup>nd</sup> pass at lower energy which gives a tacky result and the 3<sup>rd</sup> pass at a higher energy to cure the system fully. This process increases the intercoat adhesion between the separate layers. Maximum 3 passes can be applied in this manner. If more than 3 passes are required to achieve desired build, fully cure the previous layers followed by light sanding with P400 sandpaper or an aluminum oxide nonwoven abrasive pad type very fine before application of subsequent layers.



Cure Guidelines

- UV Cure with 200 – 400 millijoules (UVA) energy
- Sealer will have a slight tack after UV cure. Proceed to the next sealer coats.
- Sealer can be cured using most types of UV lamps. Check energy output prior to use.

## Optidur 8001 UV Sealer



Cleaning of  
Equipment

Clean equipment with Solvent Cleaning C28/15 or Solvent Cleaning 98068. Clean equipment 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.

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



Theoretical  
Coverage

39.3 m<sup>2</sup> per liter ready to apply at 25 µm dry film thickness  
1600 ft<sup>2</sup> per US gallon ready to apply at 1 mil dry film thickness



Dry Film Weight

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



Volatile Organic  
Compounds

< 5 g/l, ready to apply  
< 0.04 lbs/gal



Gloss (60°)

Not Applicable



Color

Clear

## Optidur 8001 UV Sealer



Flash-point

Optidur 8001 (801-001A)  
FR-1100

Not Applicable  
-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

5 - 21°C  
(41 - 70°F) / 55%  
RH

Optidur 8001 (801-001A)  
FR-1100

12 months  
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.

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#### 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.

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