

Optidur 8000 Sealer Technical Data Sheet

Product Group

Cabin Coatings

Characteristics



Product
Information

Optidur 8000 Sealer is a 1-component high quality, Ultra Violet Reactive Coating (UV), used as a sealer / primer on all types of solid wood and veneer meant for interior use. Its special formulation ensures excellent adhesion to exotic woods with superior hold-out for subsequent coating.

UV cured resins provide the basis for Optidur 8000 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 all types of 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 8000 Sealer (437-2263) |
| Retardant | Flame retardant (not sold by AkzoNobel Aerospace Coatings) |

Specifications



Qualified
Product List

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

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.

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Optidur 8000 Sealer UV Reactive Coating

Surface Conditions



Cleaning

- Product is compatible with other products out of the Optidur Series.
- Remove oil, grease and other contaminations carefully prior to application of the Sealer.
- Remove dust with e.g. tack rags prior to application of the primer / Sealer.

Instruction for Use



Mixing Ratio (volume)

| | <u>Volume (v/v)</u> | <u>Weight (w/w)</u> |
|------------------------|---------------------|---------------------|
| Optidur 8000 Sealer UV | 100 parts | 100 parts |
| Flame retardant | 5 - 10 parts | 5 - 10 parts |

- Amount of flame retardant is dependent on type of flame retardant and type of substrate:
- Allow products to acclimate to room temperature before use.
- Add flame retardant 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) – 55% RH)

Product is moisture sensitive. Product should be used up once taken from the container. Once the primer is on the application equipment, the working window should be an 8-hour shift. Transfer from pail to container on machine. Remember to put the cap on the pail. Does not require shake or stir prior to use.



Dry Film Thickness (DFT)

Apply 1.8 – 2.8 grams per square foot. Max recommended build is 1.5 mils or 4.0 grams per square foot per pass.



Note

Respect described pot life / working window.

Optidur 8000 Sealer

UV Reactive Coating

Application Recommendations



Conditions

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



Note

Optidur 8000 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

Roll Coater Reverse Operation of doctor roll is preferable. (Doctor blade required).



Application

- 30-50 durometer roll hardness
- Reverse Operation of doctor roll is preferable. (Doctor blade required)
- Apply 1,8 – 2,8 grams per square foot
- UV Cure with 200 – 400 millijoules (UVA) energy
- Apply next coat directly without sanding
- Max recommended build is 1,5 mils or 4.0 grams per square foot per pass

In case multiple passes are done. It is an option to cure the 1st and 2nd pass at lower energy, which gives a tacky result and the 3rd pass at a higher energy to cure the system fully. This increases the intercoat adhesion between the separate layers.



Cure Guidelines

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

Optidur 8000 Sealer UV Reactive Coating



Cleaning of Equipment

Clean equipment with Solvent Cleaning C28/15 or Solvent Cleaner 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 for 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



Dry Film Weight

9,1 lbs / Gal
1.09 kg / Ltr



Volatile Organic Compounds

< 0,01 lbs / Gal, product ready to apply
0.067 gr / Ltr



Gloss (60°)

Gloss



Color

Clear



Flash-point

Not applicable.

Optidur 8000 Sealer UV Reactive Coating



Storage

Store the product dry and at a temperature between 5 and 32°C / 41 and 90°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.

Shelf life

5 - 32°C
(41 - 90°F) /
55% RH

Optidur 8000 Sealer

6 Months



Note

Always Rotate Stock

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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