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.

AkzoNobel Aerospace Coatings
1 East Water Street, Waukegan, IL 60085, USA - Phone (847) 623 4200
Rijksstraatweg 31, 2171 AJ Sassenheim, The Netherlands - Phone (31) 71 308 2905
Mail: aerospace@akzonobel.com / Online: aerospace.akzonobel.com

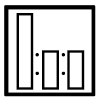
Optidur 8000 Sealer
UV Reactive Coating

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)

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

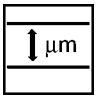
- Amount of flame retardant is dependent on type of flame retardant and type of substrate:
- Allow products to acclimatize to room temperature before use.
- Add flame retardant and stir the mixture thoroughly for at least 2 minutes. Mechanical mixing/stirring is preferred, or shake the mixture thoroughly on a paint shaker for 60 seconds.

Induction Time

Not applicable.

Pot life (25ºC/77ºF) – 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.

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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.

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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 (60º)	Gloss
Color	Clear
Flash-point	Not applicable.

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Storage

Store the product dry and at a temperature between 5 and 32ºC / 41 and 90ºF 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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