

22/23 Series High Solids Epoxy Topcoat

Technical Data Sheet

Product Group

Epoxy Topcoat

Characteristics



Product
Information

- The 22/23 Series product is a chemically cured two-component epoxy topcoat designed to provide maximum protection from various chemicals, hydraulic fluids, aviation fuels, phosphate ester (Skydrol®) fluids and corrosion causing media. This high solids technology meets VOC requirements of SCAQMD Rule 1124.

Components



Curing Solution

Gloss Curing Solution X-530
Semi-gloss Curing Solution EC-263
Flat Curing Solution EC-264

Specifications



Qualified
Product List

Boeing	BMS 10-11, Ty II, CI B, Gr D
EADS (CASA)	Z-12.361/BMS 10-11, Ty II, CI B
Goodrich	EMS 93284 C CI A (AiResearch Los Angeles Div.) (22 series / color specific)

For most recent up-date or missing specifications please check the qualified product list (QPL) on www.akzonobel.com/aerospace

Surface Conditions










Cleaning

- Surface pretreatment is an essential part of the painting process.
- Follow the specification requirements for cleaning and pretreatment application.

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Instruction for Use

	<p>Mixing Ratio (volume)</p>	<p>3 parts 1 part 1 part 1 part 1 part 1 part</p>	<p><u>Gloss</u> Base 446-22 Series Curing Solution X-530 <u>Semi-gloss</u> Base 456-23 Series Curing Solution EC-263 <u>Flat</u> Base 466-23 Series Curing Solution EC-264</p>
	<p>NOTE</p>	<ul style="list-style-type: none"> - Stir or Shake base component until all pigment is uniformly dispersed. - Once added, Stir the catalyzed mixture again thoroughly - NOTE: EC-264 requires stirring or agitation itself BEFORE mixing with the base component (due to its composition) in order to achieve a homogenous consistency of dispersion. 	
	<p>Induction Time</p>	<p>15 minutes</p>	
	<p>Initial Spraying Viscosity (25°C/77°F)</p>	<p>17 - 35 seconds Zahn-Cup #2</p>	
	<p>Note</p>	<p>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.</p>	
	<p>Pot life (25°C/77°F)</p>	<p>4 Hours</p>	
	<p>Dry Film Thickness (DFT)</p>	<p>25-37 microns (µm) 1.0-1.5 mils</p>	

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Application Recommendations



Conditions

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



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 in order to identify the best equipment settings to be used in optimizing the performance and appearance of the coating.



Equipment

Airless .279 mm 0.011 inch 60° angle
.330 mm 0.013 inch 80° angle
Air
Fluid tip 1.4 mm (0.055 inch)
Atomizing air pressure 45-65 psi
Fluid pressure 6-8 psi



Number of
Coats

Spray a single wet coat. Allow a 15 minute solvent flash and apply a second wet coat.











Cleaning of
Equipment

Use TR-19 or MEK

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Physical Properties

	Drying Times (25 +/- 2°C / 77 +/- 2°F, 55 +/- 5% RH)	Dry to touch 3 hours Dry to tape 7 hours
	Theoretical Coverage	250-400 ft²/gal based on 50% transfer efficiency 6-10 m²/l based on 50% transfer efficiency
	Dry Film Weight	3.5 lbs/gal (420 g/l) max. per US calculations
	Volatile Organic Compounds	Max 420 g/l Max 3.5 lb/gal per US calculations
	Gloss (60°)	446-22 Series 90 gloss units minimum 456-23 Series 20-40 gloss units 466-23 Series 14 gloss units maximum
	Color	As Required
	Flash-point	See MSDS for specific component flash-point.
	Storage	Store the product dry and at a temperature between 5 and 38°C / 40 and 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.

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Shelf life	12 months per AkzoNobel Aerospace Coatings commercial specification.
5 - 38°C	Shelf life may vary due to OEM specification requirements. Refer to
(40 - 100°F)	container label for specific shelf life information.

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: December 2019 (supersedes January 2015) - 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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