

8B6A Laminar X-500

Technical Data Sheet

Product Group

Characteristics



Product Information

Conductive Coating

A black, two-component catalyzed polyurethane conductive coating with pigments selected for electrical conductive capabilities and for maximum erosion, abrasion and impact resistance. 8B6A provides exceptional rain erosion resistance and conductivity for bleeding off surface static electricity where cured film resists chemicals such as lubricants, hydraulic fluids and aircraft fuels.

Recommended for application to deicing equipment, propeller blades and other critical airframe areas subject to damaging effects of high-speed contact with rain, hail, dust and other corrosive elements.

Components



Base	8B6A
Curing Agent	Curing Solution 50C3A
Thinner	Thinner 66C28
Thinner	Thinner 66C20

Specifications



Qualified Product List

Goodyear	GOODYEAR CUBERSIC
Hamilton Sundstrand Corp	HS 7136, TY I, CL B
Irkut	741.14021-00-00-0038-0T040B
McDonnell Douglas	HMS 20-1642
Pratt & Whitney Aircraft	PWA 36013

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.

Surface Conditions



Surface Preparation/
Cleaning

Surface pretreatment is an essential part of the painting process.

- Clean laminates thoroughly.
- Sand lightly and apply conductive coating.

If pinholes or surface irregularities are present in the laminate, fill with; static conditioner filler (28C1) after cleaning and sanding, and surfacer (8W5) as required, prior to the application of 8B6A.

Instruction for Use



Spray Application (Mix Ratio)

	Volume
8B6A	4 parts
Curing Solution 50C3A	1 part
Thinner*	0-1 part

* Thinner options: Thinner 66C28, Thinner 66C20

- Allow products to acclimate to room temperature before use.
- Stir or shake the base component thoroughly until all pigment is uniformly dispersed before adding the curing solution.
- Add the curing solution and stir the catalyzed mixture thoroughly.
- Optionally, add up to 1 part 66C20 fast evaporating thinner, or 66C28 slow evaporating thinner if needed, and stir the catalyzed mixture again thoroughly.

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	Induction Time	15 – 20 minutes
	Initial Spraying Viscosity (25°C/77°F)	20 seconds minimum as measured without added thinner with Signature Zahn-Cup #2
	Note	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.
	Pot life (25°C/77°F)	6 – 8 hours.
	Dry Film Thickness (DFT)	Conductivity is achieved at a film thickness of 37-50 µm (1.5-2.0 mils). Rain erosion performance is optimized at a film thickness of 200-250 µm (8.0-10.0 mils).

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 airflow 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 Recommendation

Spray gun type	Product supply	Fluid Pressure	Nozzle orifice	Product flow	Dynamic air pressure at gun-inlet *
Conventional	NA	NA	1.4 – 1.8 mm	NA	NA
HVLP / Next Generation	NA	NA	1.2 – 1.4 mm	NA	NA
Air Atomizing (electrostatic)	NA	NA	.28 - .33 mm	NA	NA
Pressure Atomizing (electrostatic)	NA	NA	NA	NA	NA

	Number of Coats	Allow brush coat to stand 6 hours to overnight between coats. Spray coats maybe applied consecutively, allowing 30 minutes between coats.
	Cleaning of Equipment	MEK, or C28/15

Physical Properties

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	Drying Times		25°C/77°F, 55% RH
	Tack Free	30 – 60 minutes	
	Dry Through	6 – 8 hours	
	Full Cure	7 days	
	Theoretical Coverage		10.9 m ² per liter ready to apply at 25 µm dry film thickness 445 ft ² per US gallon ready to apply at 1 mil dry film thickness
	Dry Film Weight		55.35 g/m ² at 25.4 µm .0113 lbs/ft ² at 1 mil
	Gloss (60°)		Maximum 10 GU
	Color		Flat Black
	Flash Point		8B6A -5°C / 23°F Curing Solution 50C3A 7°C / 45°F Thinner 66C28 15°C / 59°F Thinner 66C20 -4°C / 25°F
	Shelf life 5 - 38°C (41 - 100°F)		8B6A 18 months Curing Solution 50C3A 18 months Thinner 66C28 24 months Thinner 66C20 24 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.

Revision date: July 2026 (supersedes October 2020) - 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