

Eclipse® ECL-G-857 Polyurethane Diamond Ice Mica Base



AkzoNobel
Tomorrow's Answers Today

Product Group

VOC compliant polyurethane Mica Intermediate coat for three coat application of:
ECL-G-11XXX
ECL-G-857
ECL-G-2 or ECL-G-7

Characteristics



Product
Information

- A chemically cured, long life mica base coat designed to provide a uniform metallic appearance. This coating has a balanced formulation to provide superior chemical and stain resistance, flexibility and weathering performance. When used with AkzoNobel Aerospace Coatings primers 10P20-44MNF (BMS 10-72 Type IX) or 10P20-12 (DMS 2104), the corresponding base coat for the required color and Eclipse Clear, ECL-G-2 or ECL-G-7 this system provides a durable long lasting, protective and decorative finish that exceeds typical OEM requirements for exterior aircraft performance.

Components



Curing Solution

Curing Solution PC-233

Specifications



Qualified Product
List

Boeing	BMS 10-72, TY IX
Bombardier	BAMS 565-009, TY I, GR B
Bombardier/deHavilland	DHMS C4.04, TY 6, CL B, GR B
Embraer	MEP 10-069

The complete AkzoNobel Aerospace Coatings qualified product list (QPL) can be found at: www.akzonobel.com/aerospace

Surface Conditions



Cleaning

Surface pretreatment is an essential part of the painting process.

Instruction for Use



Mixing Ratio
(volume)






2 parts	Base ECL-G-857
1 part	Curing Solution PC-233

- Stir or Shake until all pigment is uniformly dispersed before adding curing solution.
- Stir the catalyzed mixture thoroughly.





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	Induction Time	15 minutes
	Initial Spraying Viscosity (25°C/77°F)	17 – 23 seconds 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)	3 hours.
	Dry Film Thickness (DFT)	<p>Solid base coat only 25 – 46 microns (µm) 1.0 – 1.8 mils</p> <p>Intermediate mica coat only 38 – 46 microns (µm) 1.5 – 1.8 mils</p>

**Application
Recommendations**

	Conditions	<p>Temperature: 15 – 35°C 59 – 95°F</p> <p>Relative Humidity: 35 – 75%</p>
	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	<p>Air 055-.072 mm nozzle orifice</p> <p>HVLP 1.4-1.8 mm nozzle orifice</p> <p>Air spray Electrostatic 1.4-1.8 mm nozzle orifice</p> <p>Airless Electrostatic Not recommended</p>
	Number of coats	Apply in a cross coat pattern (2- 3 coats) of material to a wet film thickness of 3.0-3.5 mils to result in a dry film of 1.5-1.8 mils



Cleaning of
Equipment

Solvent Cleaning C28/15 or TR-15 (electrostatic equipment) Solvent Cleaning C28/15 or TR-19 for other spray equipment.

Physical Properties



Drying Times
(25 +/- 2°C / 77
+/- 2°F, 55 +/- 5%
RH)

Dry to dust 4-5 hours
Dry to tape N/A
Full cure This coating must be clear coated before full cure is established

Recoat minimum 1 hour
Recoat maximum 24 hour



Note
Drying Times

Time between basecoat and mica coat: 2 hours or dry to touch (no transfer)

Flash time between Coats: 30-45 minutes



Theoretical
Coverage

20.7 m² per liter ready to apply at 25 µm dry film thickness
844 ft² per US gallon ready to apply at 1 mil dry film thickness



Dry Film Weight

30.9 g/m²/25 micron
0.006 lbs/ft²/1 mil



Volatile Organic
Compounds

Max 420 g/l
Max 3.5 lb/gal



Gloss (60°)

Gloss can only be measured once the clear coat is applied to the material, using a conventional 60 degree gloss meter will not give consistent accurate readings



Color

Diamond Ice Mica BAC 51470



Flash-point

ECL-G-857
PC-233

12°C / 54°F
166°C / 330°F



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.

Shelf life
5 - 38°C
(40 - 100°F)

24 months per AkzoNobel Aerospace Coatings commercial specification. Shelf life may vary due to OEM specification requirements. Refer to 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 MSDSs 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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