



Product Group

Fuel tank coating

Characteristics



Product
Information

- 420 g/l polyurethane coating
- Intended for the protection of aircraft integral fuel tanks against corrosion from fuel contaminants
- Lead-free and EE-acetate free

Components



Curing Solution,
Thinner/Reducer

Curing Solution PC-235
Thinner TR-117 (DMS 1850 only)

Specifications



Qualified Product
List

Boeing Long Beach	DMS 1850, Ty I, Comp B
Bombardier/Canadair	BAMS 565-010, Gr B
Bombardier/deHavilland	DHMS C4.06, Amend 1
US Military/Naval	MIL-C-27725, Type II, Class A & B
US Military/SAE	AMS-C-27725, Ty I

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.
- Follow the specification requirements for cleaning and pretreatment application.

Instruction for Use



Mixing Ratio
(volume)

By volume

3 parts	20P1-21 base
1 parts	PC-235 curing solution

DMS 1850

3 parts	20P1-21 base
1 part	PC-235 curing solution
0.5 part	TR-117 thinner

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



	Induction Time	15 minutes.
	Initial Spraying Viscosity (25°C/77°F)	32 – 44 seconds 4 mm ISO Cup. 19 – 24 seconds #2 Signature Zahn Cup. 18 – 22 seconds # 4 Ford Cup.
	Note	13 – 18 seconds # 4 Ford Cup for DMS 1850 only The uses of Ford and Zahn Cups for viscosity are requirements of the referenced specifications, and the ISO Cup measurement is provided only as a reference for field application. They are not provided as quality control values. 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)	4 hours.
	Dry Film Thickness (DFT)	20 – 30 micron (µm) 0.8 – 1.2 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 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	Conventional Air 1.4 mm (.055 inch) nozzle orifice HVLP 1.4 mm (.055 inch) nozzle orifice



Number of coats

Spray apply one or two uniform wet coats to recommended dry film thickness.



Cleaning of
Equipment

Use MEK or similar solvent.

Physical Properties



Drying Times
according to
AITM 2-0011
(25 +/- 2°C / 77
+/- 2°F, 55 +/- 5%
RH)

Tack free	3 hours maximum
Dry hard	12 hours maximum
Full cure	14 days

- The ambient cure schedule is affected by relative humidity.
14-day room temperature cure requires a minimum 50 % RH.

- The following accelerated cure schedule generally results in maximum
chemical resistance properties for this coating: 24 hrs @ 25°C/77°F and 50%
RH, followed by 24 hours at 60°C/140°F with 50% RH.



Theoretical
Coverage

19.4 m² per liter ready to apply at 25.4 μm dry film thickness
791 ft² per US gallon ready to apply at 1 mil dry film thickness



Dry Film Weight

44.08 g/m² at 25.4 microns
.0090 lbs/ft² at 1.0 mil



Volatile Organic
Compounds

Max. 420 g/l
Max. 3.5 lb/gal



Gloss (60°)

25 GU



Color

Yellow



Flash-point

20P1-21	8°C / 46°F
PC-235	7°C / 45°F
TR-117	-13°C / 9°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.

Issue date September 2009 (supersedes April 2008) - 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.
