

Product Group

Fuel tank coating

Characteristics



Product Information

- Chemically cured two component epoxy coating
- Provides protection from various chemicals, hydraulic fluids, aviation fuels, phosphate ester (Skydrol®) fluids, and corrosion causing media for aircraft fuel tanks.
- Compliant to VOC requirements for SCAQMD Rule 1124
- 454-4-5 is specifically designed for electrostatic spray.

Components



Curing Solution

Thinner

Curing Solution CA-109 Curing Solution X-395 Thinner TL-52

Specifications



Product List

BMS 10-20 Type II, Class A, Gr A Boeing BMS 10-20 Type II, Class B, Gr A Boeing

Bombardier / Lear LES 1079, 4.1.1, 4.1.4

The complete Akzo Nobel Aerospace Coatings qualified product list (QPL) can be found at: www.anac.com

Surface Conditions



Cleaning

Alodine 1200 (per MIL-C-5441) or chromic acid anodized (per BAC 5019). See Section 8.2 of BMS 10-20.

Instruction for Use



Mixing Ratio (volume)

Conventional:

3 parts Base 454-4-1

1 part Curing Solution CA-109 0 - 0.25 part Thinner TL-52 (optional)

Electrostatic:

3 parts Base 454-4-5

1 part Curing Solution X-395

- Stir or shake base till all pigment is uniformly dispersed before adding curing solution
- Stir the catalyzed mixture thoroughly
- Thinner is not normally required

Induction Time

30 minutes

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Initial Spraying Viscosity (23°C/73°F)

10 - 20 seconds ISO Cup # 4

10 – 20 seconds Signature Zahn Cup # 2

10 - 20 seconds Ford Cup # 4

The uses of Signature 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.



Pot life (231°C/73°F) 8 hours.



Dry Film Thickness (DFT)

8 - 20 microns (μ m) 0.3 - 0.8 mils

Application Recommendations



Conditions

Temperature: 15 - 35°C $59 - 95^{\circ}F$ Relative Humidity: 35 - 75%



Equipment

Conventional Air 1.4 mm (.055 inch) nozzle orifice

.28 mm (.011 inch) nozzle - 60° angle Air assist airless Electrostatic .33 mm (.013 inch) nozzle - 80° angle



Number of Coats

Spray a single wet coat.



Cleaning of Equipment

Use MEK or TR-36.



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.

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Physical Properties



Drying Times Dust-free at RT 30 minutes maximum
Tack-free at RT 3 hours maximum
Dry Hard at RT 12 hours maximum

Force cure (recommended) 30 minutes ambient flash,

followed by 1 hour at 71°C/160°F.



Theoretical Coverage

454-4-1 Admixed (unreduced):

8.9 m²/liter ready to apply at 25.4 µm dry film thickness 363 ft²/US gallon ready to apply at 1 mil dry film thickness

454-4-5 Admixed (unreduced):

8.9 m²/liter ready to apply at 25.4 µm dry film thickness 363 ft²/US gallon ready to apply at 1 mil dry film thickness



Dry Film Weight 454-4-1 Admixed:

43.59 g/m² at 25.4 microns

.0089 lbs/ft² at 1 mil

454-4-5 Admixed:

43.72 g/m² at 25.4 microns

.0090 lbs/ft² at 1 mil



Volatile Organic Compounds 454-4-1:

Max. 652 g/l (5.4 lbs/gal) with no thinner per ASTM D3960.

Max. 663 g/l (5.5 lbs/gal) with 0.25 parts TL-52

454-4-5:

Max. 672 g/l (5.6 lbs/gal) with no thinner per ASTM D3960



Gloss (60°)

10 maximum GU



Color

Yellow



Flash-point

454-4-1 454-4-5 CA-109 X-395 TL-52

-5°C / 23°F 7°C / 45°F -5°C / 23°F 7°C / 45°F -5°C / 23°F

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Storage

Store the product dry and at a temperature between 5-25°C/41-77°F. Stored in the original unopened containers.

Periodical short time exposure (max. 48 hrs at a time) to higher temperatures (max. 40°C/104°F) will not negatively influence the

shelf life of the products.

Shelf life 5 - 25°C (41 - 77°F)

12 months per ANAC commercial specification Shelf life may vary due to OEM specification requirements

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.

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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