



Product Group

Polyurethane Coating

Characteristics



Product
Information

- A chemically cured, low VOC coating designed to provide premium gloss and provide superior chemical and stain resistance, as well as flexibility. This technology is specifically engineered to produce a noticeable color change to indicate when the substrate/ part has been subjected to extreme temperature conditions (450°F/ 232°C)

Components

Base
Curing Solution,
Thinner/Reducer

113FG401
PC-233
TR-109 or TR-111 thinner

Specifications



Qualified Product
List

Goodrich LGQP 6002

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. This product should be applied over a specified primer, such as AkzoNobel Aerospace Coatings 10P20-44 or 10P20-44M.

Instruction for Use



Mixing Ratio
(volume)

2 parts 113FG401
1 part PC-233
1 part TR-109 or TR-111

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



Induction Time

15-30 minutes

113FG401

Temperature Indicating Coating



	Initial Spraying Viscosity (25°C/77°F)	30 – 50 seconds ISO-Cup #4 17 – 23 seconds signature Zahn-Cup 2 21 – 31 seconds EZ 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)	50-75 micron (µm) 2-3 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	Air 1.2 - 1.4 mm (.047-.055 inch) nozzle orifice Air pressure 35 – 55 PSI HVLP 1.2 - 1.4 mm (.047 - .055 inch) nozzle orifice Air pressure 10 PSI at the air cap Air Assist Airless Electrostatic 23 – .34 mm (.009 – .013 inch) nozzle orifice Atomizing air pressure 55-65 PSI Air spray Electrostatic 1.2 – 1.5 mm (.047 - .059 inch) nozzle orifice Air pressure 35 – 45 PSI

113FG401 Temperature Indicating Coating



Number of coats

Apply 113FG401 coating in two to three applications to a recommended dry film thickness of 2 – 3 mils (50 – 75 microns). More, if necessary to achieve acceptable hide.

Allow coats to dry in accordance with the table below before recoating:
Recommended recoat time at 77° ± 2°F (25 ± 1°C) 50 ± 5% RH)*

Thinner/Reducer

Recommended Re-coat Time

TR-109

45 – 120 minutes

TR-111

30 – 60 minutes



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)

	<u>TR-109</u>	<u>TR-111</u>
Dry to dust	3.5 hours	3.25 hours
Dry to tape	10-12 hours	6-7 hours
Full cure	24 hours	18-24 hours
Recoat minimum	45-60 minutes	30-45 minutes
Recoat maximum	48 hours	36 hours



Theoretical
Coverage

11 m² per liter ready to apply at 50 µm dry film thickness
450 ft² per US gallon ready to apply at 2 mil dry film thickness



Dry Film Weight

1.5 g/m²/micron
0.008 lbs/ft²/mil



Volatile Organic
Compounds

Max 420 g/l
Max 3.5 lb/gal



Gloss (60°)

80 minimum



Color

Yellow

113FG401

Temperature Indicating Coating



Flash-point

Refer to the Material Safety Data Sheet (MSDS) for each individual component for specific flashpoint information.



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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