

# Pyroflex 7 D 713

## Technical Data Sheet

### Product Group

Polyurethane Primer

### Characteristics



Product  
Information

Pyroflex® 7 D 713 is a 3-component polyurethane conductive coating for application to non-conductive substrates like composites:

- Matt black appearance.
- Resistance to aircraft fluids and chemicals.
- Surface resistance:  $R < 50 \text{ K-ohm}$

### Components



Base material	Pyroflex® 7 D 713
Hardener	0651
Thinner	0651
Thinner	C 25/90 S

### Specifications



Qualified  
Product List

Airbus Industries	AIMS 04-04-005, PQ 10050 – 017, TN A.007.10050 – 17, TN A.007.10106 TY I, ASNA 4241, IPDA 64-07
Air France	SMI 70 081
British Aerospace Airbus	ABP 4-2125
BWB	WL 5.7112
DASA	DA 4-653-93
Dowty Aerospace	PS 5632
Propellers	
Fokker	TH 5.723 / 1
Hispano Suiza	HS 900187 F°0421
Irkut	741.140/21/00-00-0038, 741.140/21-00-00-0038-0T04/0B
Snecma	DMR 74-038
Sukhoi	RRJ0000-RE-314-201

# Pyroflex 7 D 713 Polyurethane Primer

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](http://aerospace.akzonobel.com/products)

## Surface Conditions



### Cleaning

- Observe the recoatability limits of the relevant primer.
- Remove all residues of release agents (mould liner) from the substrate and degrease with e.g. Solvent Cleaning C 28/15.
- Recondition aged primer surfaces with e.g. Scotch-Brite® type A very fine to a uniform and matt surface.
- Remove dust with e.g. tack rags

## Instruction for Use



### Mixing Ratio (volume)

Base Pyroflex® 7 D 713	100 parts
Hardener 0651	30 parts

Reduce to spraying viscosity with:

30 – 70 parts	Thinner 0651 or Thinner C 25/90 S
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### Mixing Ratio (weight)

Base Pyroflex® 7 D 713	3 parts
Hardener 0651	1 part

Reduce to spraying viscosity with:

1 – 3 parts	Thinner 0651 or Thinner C 25/90 S
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- Allow products to acclimatize to room temperature before use.
- Stir or shake Pyroflex® 7 D 713 till all pigment is uniformly dispersed before adding hardener.
- Add Hardener 0651 and stir the catalyzed mixture thoroughly.
- Add thinner and stir again till a homogeneous mixture.

Note: Due to OEM documentation Mixing ratios are different. Mixing Ratio on weight allows to use higher volumes of thinner. When mixed per volume, extra addition of thinner up to 30 parts may help smoothen the initial application.

# Pyroflex 7 D 713 Polyurethane Primer



Induction Time 15 minutes after mixing



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

- 15 – 30 seconds ISO-Cup 4
- 29 – 35 seconds Gardner Signature Zahn-Cup #1.



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) 8 hours



Dry Film Thickness (DFT) Minimum 40µm  
Minimum 1.6 mils

## Application Recommendations



Conditions

Temperature: 15 – 35°C  
59 – 95°F

Relative Humidity: 35 – 75%



Note Pyroflex® 7 D 713 may be applied in conditions outside the limits shown above. Care must be exercised to ensure a satisfactory result. Please contact your local AkzoNobel Aerospace Coatings representative to determine the appropriate application techniques when environmental conditions fall outside of the recommended range.

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Equipment

Air  
HVLP

1.4 – 1.8 mm nozzle orifice  
1.4 – 1.8 mm nozzle orifice



Application  
Scheme

Spray one single coat followed after 5 – 15 minutes flash-off time by a cross-coat



Cleaning of  
Equipment

Solvent Cleaning C 28/15 or Solvent Cleaning 98068



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 to identify the best equipment settings to be used in optimizing the performance and appearance of the coating.

## Physical Properties



Drying Times  
(23°C / 73°F,  
55% RH)

Dry to tape  
Recoat min.  
Recoat max.

6 – 8 hours  
6 hours  
72 hours.

Forced drying

If a drying time of 72 hours is exceeded, condition surface with e.g. Scotch-Brite® type A very fine. 30 minutes flash-off followed by 1 hour at 80°C.

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Theoretical Coverage

9 m<sup>2</sup> per liter base at 40 µm dry film thickness  
361ft<sup>2</sup> per US gallon base at 1.6 mil dry film thickness



Dry film weight

1.33 g/m<sup>2</sup>/µm  
0.0069 lbs/ft<sup>2</sup>/mil



Gloss (60°)

< 55 GU



Color

Black



Flash-point

Pyroflex 7 D 713	>21°C / 70°F
Hardener 0651	<21°C / 70°F
Thinner 0651	<21°C / 70°F
Thinner C 25/90 S	<21°C / 70°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 and shelf life may vary per OEM specification requirements. Refer to container label for specific storage life information.

Shelf life  
5 - 38°C  
(40 - 100°F)

Pyroflex 7 D 713	12 months
Hardener 0651	12 months
Thinner 0651	36 months
Thinner C 25/90 S	36 months

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## 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.

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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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