



Product Group

Miscellaneous

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 K-ohm.

Components



Hardener Thinner
or
Activator

Hardener 0651
Thinner 0651
Thinner C 25/90 S

Specifications



Qualified Product
List

Airbus	TN 10.106
Airbus	AIMS 04.04.005

For most recent up-date or missing specifications please check the qualified product list (QPL) on www.akzonobel.com/aerospace

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)

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

Reduce to spraying viscosity with:

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

3 parts	Pyroflex® 7 D 713.
1 parts	Hardener 0651

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.



Induction Time

15 minutes after mixing



Initial Spraying
Viscosity
(21°C/70°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
(21°C/70°F)

8 hours



Dry Film
Thickness
(DFT)

Minimum 30 micron (µm)
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 of the limits shown above. Care must be exercised to ensure a satisfactory result. Please contact your local AkzoNobel Aerospace Coatings representative to determine the proper application techniques and choice of thinner when environmental conditions fall outside of the recommended range.



Equipment

Air 1.4 – 1.8 mm nozzle orifice
HVLP 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 in order to identify the best equipment settings to be used in optimizing the performance and appearance of the coating.



Physical Properties



Drying Times
(21°C/70°F, 55%
RH)

Dry to tape
Recoat min.
Recoat max.

6 – 8 hours
6 hours
72 hours.
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.

Forced drying



Theoretical
Coverage

9 m² per liter base at 30 µm dry film thickness
361ft² per US gallon base at 1.6 mil dry film thickness



Dry film weight

1.33 g/m²/µm
0.0069 lbs/ft²/mil



Gloss (85°)

< 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 35°C / 41 and 95°F. Stored in the original unopened containers.

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

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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Scotch-Brite[®] is a trademark of 3M.