

TOPCOAT FR150

FIRE RETARDANT FINISHES FOR CABIN INTERIORS

AkzoNobel

Product information



Bi-component water-based polyurethane textured mat topcoat.

Components



Base FR150
Hardener / Catalyst FR2-55
Thinner Water

Specifications



Qualified in accordance with :
Airbus Helicopters ECS2174
Meets the following requirements :
JAR/FAR Part 25§25.853 (a) + (c/d)/Change14/Amdt. 25-83

Product information mentioned in the technical data sheet is given for information purposes and can differ from requirements of specifications above. In that case, customer requirements are valid for your application.

Physical properties



THEORETICAL COVERAGE
4 m² /L for 100 µm dry (base and hardener undiluted)

DRY FILM WEIGHT
1.35 (approx.)

VOC
60g/L (ISO 11890-1) and 130g/L (ASTM D3960)

SHELF LIFE / STORAGE
12 months for the base and the hardener stored between 5°C and 35°C (in sealed original packaging)

GLOSS LEVEL
Mat (less than 10GU below 60°)

NOTES
The theoretical consumption value does not take into account the transfer efficiency for spray application. Gloss levels have been determined using glossmeter with an angle of incidence of 60°.

Surface preparation



Can be applied on phenolic composites, plastics and on aluminium.

For surface requiring surface preparation, the use of FR1-55 is recommended.

Application on a composite substrate (New or reworked)

FR1-55 is used as a primer/surfacer (Cf FR1-55 TDS for surface preparation)
FR1-55 should be sanded with a ketonic or alcoholic solvent (Isopropylalcohol type).
Then it should be cleaned with isopropyl alcohol.

Application on aluminium

FR150 should be applied on a system composed of :
- Surface treatment (AOC type)
- Epoxy corrosion resistant primer (P60-A type)

The primer should be dried for minimum 1 hour at 60°C before applying the primer.

Application on plastic substrate (new or reworked)

Except where there are surface defects, FR150 can be applied directly onto plastics. the substrate should be sanded with P240 grade paper.
Then it should be blown dried and cleaned with ketonic or alcoholic solvent (Isopropylalcohol type).

All recommendation mentioned above are given for information.

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Instructions for use



SPRAY APPLICATION

MIXING RATIO

Base

Hardener / Catalyst

Water

Mixing ratio by weight

100

20

25 to 35

Mixing ratio by volume

4 V

1 V

1,2 to 1,4 V

MIXING PROCEDURE

Ideally, the unmixed products should be stored between 18°C and 25°C for 24 hours before use.

Mixing by weight is recommended.

Mix the base and the hardener until the mixture is homogeneous. Then add thinner and mix.

The mixture should be done between 15°C and 35°C

INDUCTION TIME

None

Spraying viscosity at 20°C / 68°F

Dilution rate by weight

15-20%

ISO 6

22s ± 5s

POT LIFE

3 hours at 23°C

NOTE

Viscosities mentioned above are corresponding to the recommended range of viscosity to ensure compliant application. The range of dilution must be used to adjust viscosity to reach the recommended one.

Water based paints show a thixotropic behaviour. This implies that efflux time can vary according different parameters such as : typ of mixing, mixing quantity, dilution, temperature, time between mixing and viscosity measurement.

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Application
recommendations



CONDITIONS

Temperature 15°C to 30°C

Relative humidity Between 20 and 70% HR

EQUIPMENT

Spray gun Nozzle 1,8 to 2,2 mm

DRY / WET FILM THICKNESS

75 to 100 µm dry / 185 to 250 µm wet

NUMBER OF COATS

For a medium textured surface, apply 1 at 2 crossed coats.

EQUIPMENT CLEANING

Clean the equipment with an appropriate cleaning thinner, such as Mapaero D770-B.

NOTE

Spray with dry and oil-free air.

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Drying times



Dust free
Dry to handle
Fully Cured

23°C	40°C	60°C
30 minutes	NA	NA
8 hours	4 hours	1 hour
7 days	3 days	12 hours

NOTE

Drying times have been determined using tests pieces of a thickness < 2mm for 90µm of dry film.

N.A.* : Not Applicable

Defects & corrections



In the event of defects, contact your Quality Department.

Health & Safety



See the product Safety data Sheet.

The MSDS are available through our website www.mapaero.com

Packing



The base and the hardener are available in 1 kg and 5 kg.

WARRANTY : We guarantee our products against hidden defaults over material and preparation. Our Responsibility is limited to the obligation of freely replacing the defective material without there being a claim for any compensation. The advice we give is based on our experience but it might not be absolutely right. Consequently this does not imply our responsibility in case of inefficiency. Furthermore our company cannot be responsible for any material or corporal damages caused due to a misuse or mishandling of our products. Any concession to these clauses, to be valid, must be an official document issued by our offices and signed by our direction.