

TOPCOAT FR2-55 MATT 1-2 GU

FIRE RETARDANT FINISHES FOR CABIN INTERIORS

AkzoNobel

Product information



Three-component water-based polyurethane topcoat, matt 1-2 GU, used for commercial aircraft passenger cabins.

Components



Base FR2-55 MAT 1-2 GU
Hardener / Catalyst FR2-55
Thinner WATER

Specifications



Qualified in accordance with:
Eurocopter ECS 2210

Meets the following requirements:
JAR/FAR Part 25 §25.853(a), (c/d) Change 14 / Amdt. 25-83

Physical properties



THEORETICAL COVERAGE
7 m²/kg for 40µm (1.6mils) dry.

DRY FILM WEIGHT
1.5

SHELF LIFE / STORAGE
12 months for base and hardener between 5 and 35°C (41 and 95°F) in full and sealed original packaging.

GLOSS LEVEL
1 to 2 GU below 60°

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Instructions for use



SPRAY APPLICATION

MIXING RATIO

	Mixing ratio by weight	Mixing ratio by volume
Base	100	4V
Hardener / Catalyst	20	1V
Water	25 to 40	0.8. to 2.2V

MIXING PROCEDURE

Ideally, unmixed products should be stored between 18°C and 25°C (64-77°F) for 24hours before use. FR2-55 MATT 1-2 GU base should be mixed for 10 minutes before use. Mix the base and the hardener until the mixture is homogeneous. Then add water and mix. The mixture must be made at a temperature between 15°C and 35°C (60-95°F)

INDUCTION TIME

None

Spraying viscosity at 20°C / 68°F

Dilution rate by weight	ISO 6	AFNOR4 Cup
25-40%	23s ± 5s	45s ± 6s

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.
- ISO 6 cup is the reference cup. The others are given for information purposes.
- Water based paints show a thixotropic behavior. This implies that efflux time can vary according different parameters such as : mixing quantity, mixing process, dilution, temperature, time between mixing and viscosity measurement.

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BRUSH APPLICATION

	Mixing ratio by weight	Mixing ratio by volume
Base	100	4V
Hardener / Catalyst	20	1V
Water	5 to 15	0.3 to 0.8V

MIXING PROCEDURE

Remove the safety ring and press down on the cap to release the FR2-55 hardener. Shake the container for approximately 1 minute. Remove the cap to be able to apply the FR2-55 with a suitable brush. If after shaking 1 minute the material is not homogeneous, please use stick for further mixing (around 1 min) until the material is homogen.



Do not hermetically close the TUKs after mixing base and hardener.

INDUCTION TIME

None

POT LIFE

1 hour for a 5% dilution

Application recommendations



CONDITIONS

Temperature 15 to 35°C (59 to 95°F)

Relative humidity 20 to 70%

EQUIPMENT

Gravity compressed air gun Nozzle 1.8 to 2.2mm

DRY / WET FILM THICKNESS

30 to 60 µm (1.2 to 2.4mils) dry / 60 to 125µm (2.4 to 5mils) wet

NUMBER OF COATS

For smooth surface: Apply 1 or 2 crossed coats.

For textured surface: Dilute the first coat at 25%, wait 30 minutes until the film becomes semi-glossy.

- Fine texture: decrease the air pressure of 0.7 to 0.9 bars and apply at 50cm from the surface.
- Coarse texture: decrease the air pressure of 0.4 to 0.5 bars and apply to 20cm from the surface.

EQUIPMENT CLEANING

Clean the equipment with a suitable thinner type D760 to MAPAERO.

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Drying times



NOTE

Dust Free
Dry to handle
Recoatable
Fully cured

23°C (73°F)

30 minutes
8 hours
8 hours
7 days

40°C (104°F)

N.A
4 hours
4 hours
3 days

60°C (140°F)

N.A
1 hour
1 hour
12 hours

Drying times have been determined using tests pieces of thickness < 2mm for 45µm (1.8mils) of dry film.

N.A : Not applicable

Defects & corrections



In case of defect, please contact your Quality Department.

Health & Safety



See product Safety Data Sheets.
SDS are available through our website www.mapaero.com upon request.

Packing



The Base is available in 1kg, 5kg, 10kg and 25kg.
The hardener is available in 1kg and 5kg.

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.