TOPCOAT FRS40 FLEX

FIRE RETARDANT FINISHES FOR CABIN INTERIORS

AkzoNobel

Product information



Flexible solvent based, three component PU topcoat for aircraft passengers cabins. The product is available in 2 gloss ranges : 5-10 GU for matt parts and 20-30 GU for other semi-gloss cabin parts.

Components



Base FRS40 FLEX Hardener / Catalyst FRS Thinner FRSL

Specifications



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

Product information mentioned in the technical datasheet 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

7m²/kg for 50μm (2mils) dry (base and hardener not diluted)

DRY FILM WEIGHT

1.9 (approx.)

510 g/L (ISO 11890-1 and ASTM 3960)

SHELF LIFE / STORAGE

36 months for base, 24 months for hardener and 48 months for thinner stored between 5°C and 35°C (41°F and 95°F) in full and sealed original

5-10GU below 60° (mat), 20-30GU below 60° (semi-gloss)

Gloss levels have been determined using glossmeter with an angle of incidence of 60°. The theorical consumption value doesn't take into account the transfer efficiency for spray application

Surface preparation



All recommendations mentioned above are given for information.

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Instructions for use



SPRAY APPLICATION

MIXING RATIO

Mixing ratio by volume Mixing ratio by weight Base 100 8 V Hardener / Catalyst 10 1 V Thinner 10 to 20 1 to 2 V

MIXING PROCEDURE
Ideally, the unmixed products should be stored between 18°C and 25°C (64°F and 77°F) for 24 hours before use.
The mixture by weight is recommended.

Mix the base and the hardener until the material is homogeneous. Then, add thinner 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** 10-20% 22 +/- 5s

POT LIFE

6 hours at 23°C (73°F)

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.

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Temperature 15°C to 35°C (59 to 95°F) Relative humidity 20 to 80%

EQUIPMENT

Pneumatic Spray gun nozzle 1.3 to 1.8 mm

DRY / WET FILM THICKNESS 20 to 60 μm (0.8 to 2.4mils) dry / 40 to 120 μm (1.6 to 4.8 mils) wet

Clean the equipment with a suitable thinner such as FRSL

Spray with dry and oil-free air.

For a smooth surface:

Spray 1 or 2 crossed coats. For textured surface:

dilute first coat at approximatively 25%, spray one crossed coat and wait 30 minutes, until the aspect is semi-gloss. Fine texture: Decrease air pressure by 1.5 to 2 bars and spray at a distance of 50cm from substrate. Coarse texture: decrease air pressure by 1.0 to 1.5 bars and spray at a distance of 20cm from substrate.

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Drying times



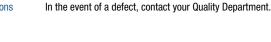
NOTE

Dust free	23°C (73.4°F) 20 min	60°C (140°F) N.A*
Dry to handle	7 hours	1 hour
Dry to tape Fully cured	8 hours 7 days	1 hour 12 hours

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

*N.A.: Not applicable

Defects & corrections



Health & Safety



See the product Safety Data Sheet.





The FRS40 Flex base is available in 1kg and 5 kg. The FRS hardener is available in 0.5kg, 1kg and 5kg. The FRSL thinner is available in 1L and 5L.

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.