VARNISH FRS40 SPECIAL

FIRE RETARDANT FINISHES FOR CABIN INTERIORS

AkzoNobel

Product information



FRS40 Special Varnish is a solvent-based polyurethane varnish three-component for aircraft interiors. It is applied on FRS40 finish to give a pearl effect.

It can be recovered with 1500-FR or 1500-HD varnish.

For specific application, please refer to the corresponding application process.

Components



Base FRS40 Special Varnish Hardener / Catalyst FRS **Thinner FRSL**

Specifications



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

 $10\text{-}15m^2/kg$ (49-74 ft²/lbs) for $20\mu m$ (0.8mils) dry

DRY FILM WEIGHT

1.2

550-650 g/L or 4.6-5.4 lbs/gal

COLOR

Pearl effect

SHELF LIFE / STORAGE

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

GLOSS LEVEL

Depends on the effect

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



FRS40 Special Varnish is applied on FRS40 finish after 1 hour to 24 hours flash off at 23°C (73°F). FRS40 Special Varnish can be recovered with 1500-FR or 1500-HD varnish after 1 hour to 24 hours flash off at 23°C (73°F). For specific application, please refer to the corresponding application process.

All recommandations mentioned above are given for information.

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Instructions for use



SPRAY APPLICATION

MIXING RATIO

Mixing ratio by weight Base 100 **Hardener / Catalyst** 10 Thinner 10 à 20

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. It is recommended to mix the base with a gyroscopic or oscillating mixer before use. The mixture by weight is recommended.

Mix the base and the hardener until the material is homogeneous. Then add water and mix
The mixture must be made at a temperature between 15°C and 35°C (60-95°F)
Note: It is recommended to sieve the material using a 125-190 µm (5-7.5 mils) filter, depending on pearl particle size.

INDUCTION TIME

Spraying viscosity at 20°C / 68°F

Dilution rate by weight AFNOR 4 FORD 4 $20s \pm 5s$

POT LIFE

6 hours

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.

Application recommendations



Temperature 15 to 35°C (60 to 95°F) Relative humidity 20 to 80%

EQUIPMENT

Gravity pneumatic spray gun Nozzle 1.2 to 1.6 mm

DRY / WET FILM THICKNESS

10 to 30 µm (0.4 to 1.2 mils) dry depending on the effect

To 3 cross coats with 5 to 10 minutes flash off in between.

Refer to the application process and/or master card to adjust the number of coats.

EQUIPMENT CLEANING

Clean the equipment with a suitable cleaning solvent such as FRSL or D770-B thinner.

Spray with dry and oil-free air.
The use of split nozzle is not recommended, except in case of specific recommendation.

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Drying times



Dust free Dry to handle Recoatable **Fully Cured**

23°C (73°F) 10-15 minutes 8 hours 1-24 hours 7 days

40°C (104°F)* N.A 4 hours 0-8 hours 3 days

60°C (140°F)* N.A 1 hour 0-6 hours 12 days

NOTE

Drying times have been determined using tests pieces of a thickness < 2mm for 20µm (0.8mils) of dry film.

*N.A.: Not applicable
*: before forced-cure, it is recommended to let dry the FRS40 Special Varnish 45 minutes to 1 hour at 23°C (73°F) for solvent evaporation.

Defects & corrections



In the event of a defect, contact your Quality Department.

Health & Safety



See the product Safety Data Sheets. The SDS are available through our website www.mapaero.com .

Packing



The FRS40 Special base is available in 1kg and 5 kg. The FRS hardener is available in 0.5kg, 1 kg and 5 kg. 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.