

Flame Ex Aerotex

Flame retardant finish for textiles made of cellulose fibres (except jute fibres), wool, polyacrylonitrile, polyester and union fabrics

- PROPERTIES:**
- creates a non-permanent flame retardant finish on the textiles made of true and regenerative cellulose fibres (except jute fibres), wool, polyacrylonitrile, polyester and union fabrics made of synthetic and natural fibres
 - Flame Ex Aerotex is registered from "Lufthansa Service AG" for the flame retardant finish of textiles in airplanes (seat covers, wall coverings).
 - Flame Ex Aerotex is a clear liquid and excellent miscible with cold water
 - Flame Ex Aerotex contains no halogens or antimony compounds

APPLICATION: The concentration depends on the fabric to be finished:

Material	Spraying 1 part Flame Ex Aerotex 3 parts water	Bath Article : Liquor 1 : 3
Cellulose(CO)	530 ml/kg (81.25 fl.oz/10 lbs)	133 ml/l (17.03 fl.oz/gal)
Polyester(PES)	240 ml/kg (36.79 fl.oz/10 lbs)	133 ml/l (17.03 fl.oz/gal)
PES/CO 50/50	390 ml/kg (59.79 fl.oz/10 lbs)	133 ml/l (17.03 fl.oz/gal)
PES/CO 65/35	350 ml/kg (53.66 fl.oz/10 lbs)	133 ml/l (17.03 fl.oz/gal)

Spray method

Flame Ex Aerotex has to be diluted with 3 parts of water; this mixture is sprayed equally onto the fabric to be treated. Afterwards the wet textiles should be tumble dried at 80 °C (176 °F) minimum (inlet temperature).

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Bath method

The textiles to be finished are treated in a washing machine at low level and room temperature for 15 minutes. After spinning at low speed for 2 minutes, the wet textiles should be tumble dried at 80 °C (176 °F) minimum (inlet temperature).

Remarks

The weight per unit area of treated polyester should not exceed 250 g/m². In the case of thin, smooth and very finely woven fabrics the extraction should be only accomplished at low rpm and only in a short cycle. In some isolated cases it might be even better to skip the extraction completely.

The successful flame retardant finish should be controlled with a self-made fired sample (burning test according to DIN 4102-B2).

TECHNICAL DATA:

Density 20 °C (68 °F)	1.20 g/ml
pH-value (1%)	3.0 - 4.0

HINTS:

Storage

Protect from frost. After partial taking out close the packing tightly again. The product can be stored for at least 24 months in its original sealed packing. After a longer storage time the product might turn slightly cloudy. This will not influence the efficiency and the quality of the product. Because of the slightly hygroscopic behaviour, Flame Ex Aerotex should be stored cool and dry in the tightly closed original packing.

1301

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