

# KAPPAPHOB FFS ECO

## Fluorine-free water repellent

Chemical composition	modified aminosiloxane
Appearance	yellowish, clear to slightly opaque liquid
pH-value 20 °C	4 - 5 (product)
Density 20 °C (g/ml)	approx. 1.0
Ionic charge	weakly cationic

### Function

KAPPAPHOB FFS ECO is a fluorine-free water repellent for the application on textiles, especially outdoor articles. The product can also be applied on leather, wood or stone. For an excellent effect, a fixation at room temperature is sufficient.

Wash-resistance can be achieved depending on the fabric and required quantity. If the effect decreases, re-impregnation is recommended. The handle and the air permeability of the fabric are retained. KAPPAPHOB FFS ECO is resistant to weak acids and sensitive against alkali.

The product is preserved by an acid pH-value. There is no additional preservative for example based on methylisothiazolinone or benzisothiazolinone used.

KAPPAPHOB FFS ECO has passed a dermatological test with the grade „very good“ saying that there are no toxic-irritative intolerances according to international guidelines.

### Application

KAPPAPHOB FFS ECO can be applied by spraying, in the washing machine or by padding. The product must be free of detrimental substances which could reduce the performance (e. g. residual alkali, sizing agents, preparations, re-wetting surfactants etc.).

#### Recommended application levels:

#### Spraying

- Preparation of a solution (40 %) with water.
- Uniform spraying on the surface to be treated.
- Drying/fixation at room temperature.

The use of a pump spray is recommended. Necessary safety information is found in the safety data sheet.

#### Foulard

- 30 – 50 g/l KAPPAPHOB FFS ECO
- Drying/fixation: at 100 – 120 °C

Longer periods of dwell time should be avoided in order to prevent deposits.

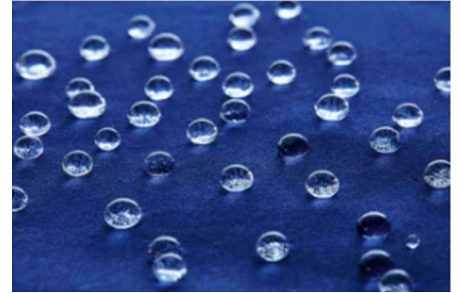
#### Washing machine

- 5 – 30 % KAPPAPHOB FFS ECO of the fabric weight

When using the products, the precautionary measures applicable to the handling of chemicals must be observed. For storage and hazard information as well as safety advice, please refer to the relevant safety data sheets. Application solutions and product residues must be disposed of in accordance with official regulations. The listed instructions correspond to our previous experience. However, in view of the different operating conditions, only non-binding information and advice can be given. Therefore, we cannot accept any liability whatsoever, including liability for claims by third parties. Errors, changes and misprints excepted. Non-binding product information, print date Nov 6, 2023, not subject to systematic change.

### Contact

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### Standards (further on request)

- Dermatest
- OEKOTEX Standard 100

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- Detergent residues should be removed before impregnation.
- Dosage in the rinse cycle.
- Curing at lowest speed (e. g. 400 rotation).
- Drying/fixation at room temperature or in commercial dryers.

### **Dilution instruction**

KAPPAPHOB FFS ECO can be mixed with water at any ratio.

### **Storage**

KAPPAPHOB FFS ECO is stable for at least 6 month if stored properly and at room temperature in a tightly closed original container.

Do not store over 40 °C!

Do not expose to frost!