

# KAPPAPHOB PLC 12

## Fluorine-free water repellent

Chemical composition	polymers in aqueous emulsion
Appearance	white to yellowish dispersion
pH-value 20 °C	3 - 6 (product)
Density 20 °C (g/ml)	approx. 1.0
Solid content (%)	23 - 25
Ionic charge	weakly cationic

### Function

KAPPAPHOB PLC 12 is a fluorine-free water repellent agent which is suitable for making textiles permanently water repellent, especially outdoor articles. The product also provides water-based stain protection.

By using 40 g/l KAPPAPHOB PLC 12, spray values of 100 (AATCC 22) up to 30 washes at 40 °C could be achieved on polyester and cotton.

In addition to the hydrophobic effect, the handle and air permeability of the product are maintained. Shades and wet fastness properties remain unchanged (in case of disperse dyeings preliminary tests are recommended). The handle is neutral after the finishing.

KAPPAPHOB PLC 12 has no oil repellent effect.

### Application

KAPPAPHOB PLC 12 is mainly used 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:

- 40 – 100 g/l KAPPAPHOB PLC 12
- 0.5 – 1 g/l acetic acid 60 %
- A pH-value of 4 – 5 is recommended.
- Drying: at normal conditions at 110 – 130 °C after usual treatment
- Fixation: 3 minutes at 150 °C or 30 – 40 seconds at 170 – 180 °C (stenter frame)

Laboratory tests are recommended to determine the optimal dosage.

### Dilution instruction

KAPPAPHOB PLC 12 can be mixed with water at any ratio.

### Storage

KAPPAPHOB PLC 12 is stable for at least 1 year if stored properly and at temperatures between 5 – 30 °C in a tightly closed original container. Longer storage can lead to phase separation, but without effect on the quality of the product. Mix well before use!

Do not expose to frost!

### Contact

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