

# AQUACER 492

Modified paraffin wax emulsion to impart hydrophobicity to surfaces

## Product data

### Composition

Cationic wax emulsion

### Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

pH value:	3.0 - 3.5
Non-volatile matter (60 min, 125 °C):	35 %
Carrier:	water
Melting point (wax content):	65 °C

### Storage and transportation

Temperature sensitive. To be stored and transported between 5 °C and 35 °C. Mix well before use.

### Special note

AQUACER 492 is free of microplastics and does not contain any perfluorinated or polyfluorinated alkyl substances (PFAS). The additive is not alkali-resistant; the pH should be below 5.5.

## Applications

### Home Care and I&I

#### Special features and benefits

AQUACER 492 provides a hydrophobic treatment for textiles of all fiber types and creates a water-repellent effect. AQUACER 492 does not negatively affect water vapor permeability, which leads to good breathability of the textiles. In addition, AQUACER 492 results in a significantly softer textile compared to some synthetic polymer-based hydrophobing agents.

#### Recommended use

Textile care	■
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■ especially recommended

#### Recommended levels

40 to 80 g/l when applied in a continuous process (e.g. foulard machine) or spray application  
 200–300 ml without dilution per 2.5 kg textile when used for treatment in the washing machine  
 2 to 4 % when applied via a dipping process based on the textile weight

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

**Incorporation and processing instructions**

AQUACER 492 can be easily dissolved in water without high shear forces. When used in washing machine, AQUACER 492 is applied in a separate wash cycle without the addition of detergent. Spray application is also possible. In the I&I sector, AQUACER 492 can be used in continuous (e.g. foulard) or dipping processes. Water required in the process is ideally adjusted to a pH of 4-5 (e.g. with acetic acid). The most favorable pH range is 3.5-4.

To fix AQUACER 492 on the fiber, a thorough drying at a minimum of 60 °C is sufficient. Condensing is only necessary if it is used with other products, e.g. crosslinkers. The condensing temperature of the other products must then be observed.

**Note**

AQUACER 492 can also be used in combination with other hydrophobic agents (e.g. to improve soft handle) or as an extender for oleophobic treatment. If fillers such as dispersions for giving handle are required, preliminary tests are recommended as they can cause a deterioration of the hydrophobic effect.



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