AQUACER 534

MOSH-/MOAH-free wax emulsion based on modified PE for aqueous printing inks, coatings, adhesives, and thermoplastics to improve surface properties.

Product data

Composition
Non-ionic emulsion based on modified polyethylene wax

MOSH-/MOAH-free

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

pH value:	3.5
Non-volatile matter (60 min, 125 °C):	45 %
Carrier:	water
Melting point (wax content):	130 °C
Viscosity (23 °C):	125 mPa·s
Delivery form:	emulsion

Storage and transportation
Product shelf life in unopened original packaging: 15 months
Temperature sensitive. To be stored and transported between 5 °C and 35 °C. Stir before use.

Special note
AQUACER 534 is the MOSH-/MOAH-free variant (according to the French regulation) of AQUACER 531.

Applications

Printing inks

Special features and benefits

- Improves rub and abrasion resistance in aqueous printing inks and overprint varnishes
- Increases surface slip

Recommended use

Flexographic inks	■
Overprint varnishes	■
Packaging gravure	■

■ especially recommended ▢ recommended

Recommended levels
2-5 % additive (as supplied) based on the total formulation.

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

Incorporation and processing instructions
The additive is preferably incorporated into the printing ink or overprint varnish with a low shear rate at the end of the production process.

Coatings industry

Special features and benefits
- Improves scratch resistance in aqueous coatings
- Increases surface slip

Recommended use

Architectural coatings	☐
Wood and furniture coatings	☐

■ especially recommended ☐ recommended

Recommended levels
2-5 % additive (as supplied) based on the total formulation.

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

Incorporation and processing instructions
The additive is preferably incorporated into the coating with a low shear rate at the end of the production process.

Adhesives and sealants

Special features and benefits
- Prevents blocking in the manufacture of hot-melt adhesives during underwater pelletizing
- Maintains the free-flowing properties of the granules
- Easy to use thanks to direct addition to the circuit water
- No effect on the product properties of the hot-melts
- Prevents dust formation during processing

Recommended use
The additive is especially recommended for the manufacture of hot-melt adhesives.

Recommended levels
0.5-5 % additive (as supplied) based on the amount of water in the cooling circuit.

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

Incorporation and processing instructions
The additive is added directly to the circuit water. If foaming occurs in the circuit water, we recommend the use of defoamers.

Thermoplastics

Special features and benefits

- Prevents caking of thermoplastic granulated material based on TPE, TPU, and EVA during underwater pelletizing
- Maintains the free-flowing properties of the granules
- Easy to use thanks to direct addition to the circuit water
- Highly efficient, resulting in significantly lower dosage levels compared to conventional solid anti-caking agents (calcium carbonate, talc)
- No effect on the product properties of the thermoplastics
- Prevents dust formation during processing

Recommended use

The additive is used in the underwater pelletizing of thermoplastic granules based on TPE, TPU, and EVA.

Recommended levels

0.2-5 % additive (as supplied) based on the amount of water in the cooling circuit.

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

Incorporation and processing instructions

The additive is added directly to the circuit water. If foaming occurs in the circuit water, we recommend the use of the defoamer BYK-023 (silicone defoamer) at a dosage of 0.05-0.1 %.

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