

AQUACER 1541

Wax emulsion based on carnauba wax to improve surface properties of aqueous formulations, especially in can coating systems and paper coatings.

Product data

Composition

Non-ionic emulsion based on carnauba wax

From bio-based raw materials

Typical properties

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

pH value:	10
Non-volatile matter (60 min, 125 °C):	25 %
Carrier:	water
Melting point (wax content):	85 °C
Viscosity (23 °C):	< 50 mPa·s
Bio-based organic carbon content (ASTM D6866):	94 %

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.

Applications

Coatings industry

Special features and benefits

AQUACER 1541 offers a combination of properties. It reduces the coefficient of friction (COF) and at the same time increases the scratch resistance of aqueous coatings, without affecting gloss or transparency.

Recommended use

The additive is recommended for aqueous can coating systems, especially for VOC-free formulations and systems with a low organic co-solvent content.

Recommended levels

0.5–3 % 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 should preferably be incorporated at the end of the production process. Mix well before use.

Paper coatings

Special features and benefits

AQUACER 1541 provides good resistance to liquids and water vapor in aqueous functional barrier coatings. In addition, it improves the anti-blocking properties.

Recommended levels

5–30 % 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 should preferably be mixed well before use to avoid any inhomogeneity. AQUACER 1541 should be added using a low shear rate and preferably before incorporating surface-active substances.



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