AQUACER 581

Wax emulsion to improve the surface characteristics of aqueous seed coatings and for use as an anti-caking additive for underwater pelletizing of thermoplastics.

Product data

Composition
Non-ionic emulsion based on a carnauba wax

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

pH value:	7.5
Non-volatile matter (60 min, 125 °C):	30 %
Carrier:	water
Melting point (wax content):	85 °C
Viscosity (23 °C, D=400/s):	< 50 mPa·s

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

Applications

Seed coatings

Special features and benefits
AQUACER 581 improves the surface wetting, anti-blocking behavior, and thus the free flow and plantability of the coated seed, which makes it a suitable microplastic-free alternative to polyethylene waxes. At the same time, the additive reduces the formation of dust thanks to the improved abrasion resistance.

Recommended use
AQUACER 581 is particularly suitable for aqueous seed coatings and for use in temporary wax-based protective films.

Recommended levels
10–30 % (as supplied) based on the total formulation when used in polymer binders.
70–90 % (as supplied) based on the total formulation when used as a substitute for polymer binder.

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 wax additive is preferably added at a low shear rate. Mix well before use.

Special note
AQUACER 581 is free from microplastics.

Thermoplastics

Special features and benefits
Thermoplastic pellets (TPE, TPU, EVA) have a tendency to stick together ("cake") under pressure and heat. AQUACER 581 is used for the underwater pelletizing of such materials; forms a protective coating around the pellets to create non-sticky and free-flowing pellets. In contrast to the frequent practice of dusting the pellets with solid release agents (chalk, talcum), much lower quantities of AQUACER 581 are required so that the properties of the thermoplastics are not affected. This method also prevents the formation of dust during processing. If foam develops in the circulation water during underwater pelletizing, we recommend using BYK-023 (silicone defoamer) at a dosage of 0.05–0.1 %.

Recommended use
AQUACER 581 is recommended for the use of very soft polymers with adhesive tendencies to prevent the pellets from sticking.

Recommended levels
0.2–5 % additive (as supplied) in the circulation water.

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 into the circulation water.

Your local contact

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