

AQUACER 539

Paraffin wax emulsion for improved surface characteristics in aqueous coatings and printing inks and for the use as an internal mold release agent for fiberboard production.

Product Data

Composition

Non-ionic emulsion of modified paraffin wax

Typical Properties

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

Non-volatile matter:	35 %
Carrier:	Water
Melting point (wax content):	90 °C
Viscosity (23 °C, D=400/s):	35 mPa·s
pH value:	9.5

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

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

Special Note

Intercoat adhesion must be verified in multi-layer systems.

Applications

Coatings and Printing Inks

Special Features and Benefits

The additive has a hydrophobic effect and improves antiblocking. It increases surface slip, scratch resistance, abrasion resistance and provides a soft feel effect.

Recommended Use

Architectural coatings	☒
Wood and furniture coatings	☒
Printing inks and overprint varnishes	☒
Leather coatings	☐

☒ especially recommended ☐ recommended

Recommended Levels

1-3 % additive (as supplied) based on the total formulation – in exceptional cases up to 4 %.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests. Recoatability and intercoat adhesion is to be verified in multi-layer systems, particularly if high dosages are used.

Incorporation and Processing Instructions

The additive should preferably be incorporated into the coating at the end of the production process at a low shear rate. Mix well before use.

Fiberboards

Special Features and Benefits

AQUACER 539 can be used as a mold release agent in fiberboard and chipboard production. The best results are achieved when used as an internal release agent in PMDI-based binder systems.

Recommended Use

Medium-density fiberboard (MDF)	
Chipboards	

 especially recommended  recommended

Recommended Levels

1.1 % additive (as supplied) based on dry mass of wood fiber.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

The additive should be added after boiling and separating the wood fibers via the blower line.



Additive Guide



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