

# 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](http://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                | <input checked="" type="checkbox"/> |
| Wood and furniture coatings           | <input checked="" type="checkbox"/> |
| Printing inks and overprint varnishes | <input checked="" type="checkbox"/> |
| Leather coatings                      | <input type="checkbox"/>            |

☒ 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



**BYK-Chemie GmbH**  
P.O. Box 10 02 45  
46462 Wesel  
Germany  
Tel +49 281 670-0  
Fax +49 281 65735

[info@byk.com](mailto:info@byk.com)  
[www.byk.com](http://www.byk.com)

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYPK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, PRIEX®, PURE THIX®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions – Printed in Germany