

Prevention of slime deposits in paper production processes without biocides and toxic agents

Microbiological control is an important feature of paper machine hygiene and runnability. The paper and board process has optimal conditions for the growth of bacteria and fungi and the formation of biofilm/slime. Microbes can have a big impact on the production cost as they can cause:

- spoilage of raw material, additives and broke towers,
- variations of quality due to blockage of filters and shower pipes,
- hydrogen sulfide and slippery floors are safety risks for workers,
- poor hygienic quality of end products due to odour or spores,
- biofilm/slime fouling causes defects and holes in the paper.

BIM Kemi has marketed biocide-free slime control since 1981, Bimogard. Bimogard is an efficient and environmentally friendly micro-organism control program.

Bimogard is a multi-functional and multi-component product consisting of modified ligno-sulphonates fortified with surface active components. Bimogard can be introduced in several different locations depending upon the severity of the contamination – most commonly in head box and short circulation loop.

The Bimogard treatment system for controlling biofilm formation has been proven through a number of applications running successfully for many years. Without the use of toxic biocides.

Bimogard is applicable on various pulp and papermaking processes (*newsprint, tissue, wood containing printing paper, folding boxboard, liner and fluting*).

Bimogard keeps machine surfaces clean, is an effective control tool for biofilm formation without using biocides, decreases production of EPS (slime), delays the growth of bacteria, is pH and temperature stable, environmentally friendly, and does not endanger the health of the staff.

For more information please contact BIM specialists.