CASE STUDY

FIBREDIS®

Biopolymer for the smart resin dispersion

APPLICATION PULP PRODUCTION

Initial situation

KEY FACTS OF APPLICATION

Finished product:
TCF bleached pulp

Amount of production:
> 800to/d

Processed sort of wood:
Long fiber (pine and spruce)
Short fiber (birch)

Dosing point FIBREDIS®:
At positions with subsequent shear stress of pulp and rejection of filtrate

Dosage FIBREDIS®:
2.5kg/to pulp

SUMMARY

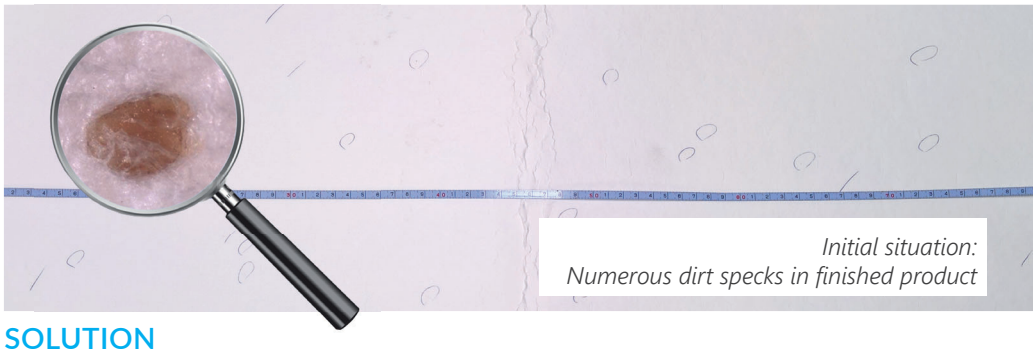
Customer satisfaction with the application of **FIBREDIS®** and the optimisation of dosage and dosing points, as well as with continuous monitoring on site and accompanying analytics done by Biomontan.

after changeover to **FIBREDIS®**

INITIAL SITUATION AND TASK

Increased incidence of resin deposits at the bleaching stages of the pulp mill and dirt specks in finished pulp. Possible causes were:

- Insufficient pulp washing in brown stage
- High pH in the bleaching stages
- High resin content in wood
- Lack of efficiacy of the former used resin dispersing agent



Initial situation:
Numerous dirt specks in finished product

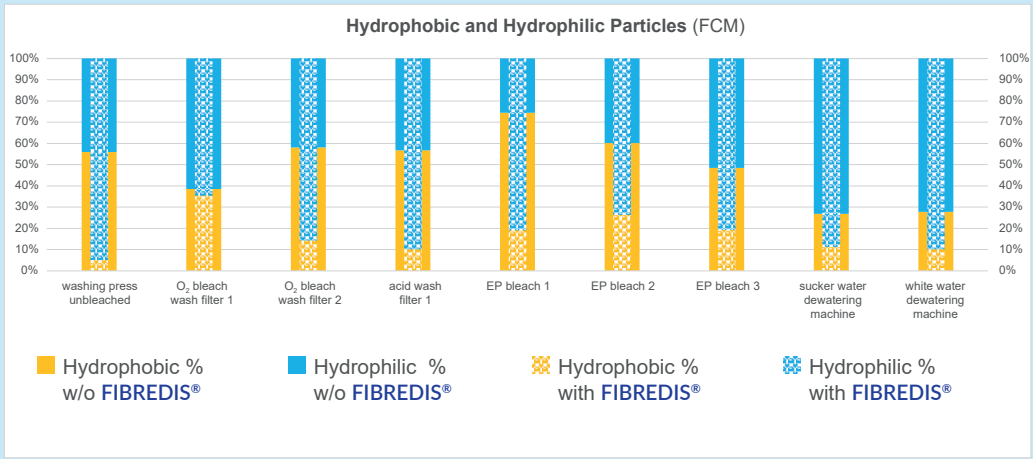
SOLUTION

The former used resin dispersion agent based on fatty alcohols and tenside has been replaced with **FIBREDIS®**. The dosing points have been optimised and expanded. Based on flow cytrometric measurement data and accompanying laboratory analytics by Biomontan the dosage has been optimised to an optimal cost/performance-ratio.

OUTCOME

By switching to **FIBREDIS®**, the operation of the pulp mill is much more stable and trouble-free:

- The excellent effect of **FIBREDIS®** ensures cleanliness of the system -> deposit-free pipes and clean screens on the filter
- Conditionally high pH in the bleaching stages no longer leads to resin precipitation
- Dirt specks in pulp have been reduced permanently
- Foaming and demand of defoamers have been decreased permanently
- A **FIBREDIS®** dosage of total 2.5kg/to pulp achieves optimum results



Result:
Influence of **FIBREDIS®** *on particles*

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