



XELOREX™ F 3000

Chemical nature

Polymer based on: vinyl amine, N-vinylformamide, modified dissolved in Water.

Ionic charge: amphoteric

Physical form: Pale yellow, slightly turbid aqueous solution

Solubility: Miscible in all proportions with water if stirred

Technical Data

Solid content*	10 – 13 %
Viscosity*	700 – 4.500 mPa·s
pH- value*	8.0 – 9.0
Density	approx. 1.1 g/cm ³

* For detailed information see *Specification Data Sheet*

Storage

XELOREX™ F 3000 has to be stored in tightly closed containers at temperatures below 35 °C.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Special feature

XELOREX™ F 3000 provides excellent dewatering and increases press efficiency. The Initial Wet Web Strength (IWWS) of the sheet is increased. The IWWS is defined as the strength of the never dried sheet i.e. ex-press section, drying cylinders, and provides an increased resistance to sheet breaks. The machine draw can also be positively influenced, through improved sheet release e.g. centre roll.

Benefits in surface strength properties can be gained resulting in improved printability with less dusting and linting at elevated sheet filler loading.

Areas of application

XELOREX™ F 3000 is a multifunctional productivity promoter encompassing the following effects in mechanical printing grades:

- Dewatering
- Fixation
- Surface Strength
- IWWS
- Rewet tensile
- Scott Bond

Benefits

- Improves paper machine productivity for maximum return on investment.
- Enables optimization of furnish components to minimize raw material cost.
- Creates superior retention of fines and mineral fillers in paper-making furnishes.
- Enables drainage profiling for energy savings in sheet forming, pressing and drying stages.
- Anionic substances such as pitch and stickies are fixed and retained to a greater extent with fewer deposits.
- Enhances retention of wet-end colloidal substances leading to improved turbidity and charge control.
- Controls white water solids to improve raw material yield and saveall efficiency.
- Superior filler retention and distribution can be realized with better formation and optical properties.
- It is effective over a wide range of pH values. Optimum performance is in the pH range from 4.5 to 8

XELOREX™ F 3000 is easy to dilute with water in all proportions and it can be added on a continuous basis via a metering pump. Prior to addition, dilution via a mixing pump or a static mixer is recommended to enable a rapid and even mixing with stock.

It is important to achieve a homogenized distribution of XELOREX™ F 3000 solution in the paper stock. This can be achieved by optimizing the speed differential between solution and stock or by choosing a suitable point of dosage. In order to achieve best performance, it is recommended to use XELOREX™ F 3000 in a split addition between thick stock and thin stock according to machine conditions.

BASF can provide recommendations for suitable preparation and metering solutions.

Usual addition rates

Total system: 0.2 – 3 % (commercial product)

Expert advice can be obtained from BASF technicians according to paper machine configuration and grades.

Biocide treatment

According to our experience to date XELOREX™ F 3000 does not promote the growth of fungi, bacteria or algae.

Materials

According to our experience to date, stainless steel (AISI 316 Ti or AISI 321), polyester (Palatal® A 410), polyethylene (Lupolen®), polypropylene and rigid PVC can be used for tanks and pipe-work.

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