

Technical Information

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derypol

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Himoloc KD4020

Product for paper and paperboard manufacturing

DESCRIPTION

Retention agent and drainage in the manufacturing process of paper.

Better dissolution compared to emulsion and solid products.

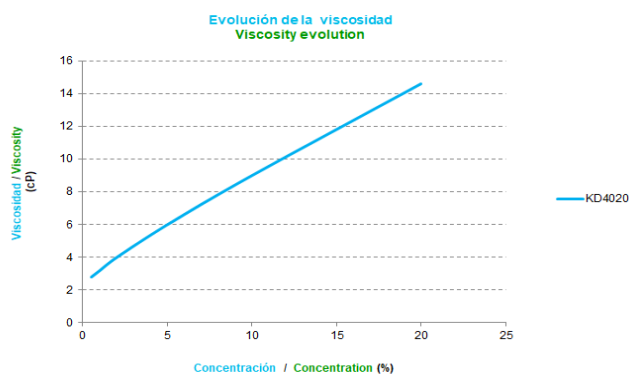
The product is free of organic solvents, surfactants and volatile organic compounds (VOCs).

Its main ingredients are: polymer, salts and water.

CHARACTERISTICS

Type of product	: Cationic acrylamide copolymer in aqueous dispersion.
Appearance	: White milky liquid
Ionic character	: Cationic
Odor	: Salty odor
Density	: $\approx 1.2 \text{ g/cm}^3$
pH	: 5.0 – 6.5
Viscosity	: $\leq 3000 \text{ cP}$
Molecular weight	: Medium-Low
Shelf life	: We recommend not keeping the product for more than 9 months.

Note: The parameters indicated here are not necessarily the specifications of the product. These will be agreed with each customer and will be part of the contract that must be respected for each batch supplied.



APPLICATION

- It is recommended to dose the product in the starch tank in constant stirring.
- Commonly used dosages are between 1 - 5 Kg Himoloc KD4020 / Tn dry starch.

Consult our technical staff in case of any doubt.

BENEFITS

- Synergistic effect between starch and Himoloc KD4020.
- Improves dry strength properties (Scott Test, CMT, RCT, Müllen) associated to starch performance.
- Improvement of ink or pigment absorption and AKD or ASA sizing agents fixation.
- Reduces production costs by optimizing starch consumption, that can easily be reduced by 30% .
- COD reduction in waste water.
- It has low molecular weight, so it will not obstruct the spraying nozzles.
- Settled starch is easily re-dispersable.
- Less starch lost in the white water.
- It agglutinates starch granules without modifying particle size.
- This effect induces a better starch retention on the cellulose fibbers.

STORAGE AND DISTRIBUTION

- The product should be kept in a covered place, the container tightly closed, protected from sunlight and within the temperature range recommended in Section 7 of the Safety Data Sheet.
- Once the container is open, avoid contamination with any other water based product and/or with strong bases. Check the Material Safety Data Sheet.
- Take all the habitual precautions when handling any chemical product. Avoid contact with eyes, skin or clothes. Though it does not produce dangerous vapours under normal handling we recommend using the product in well ventilated areas.
- There is a great variety of containers. Check with our Customer Service in order to choose the most convenient one.

REGULATORY

Consult our technical staff in case of any doubt.

The product abides by the next regulations:

- FDA (USA) - 21 CFR 176.170 Components of paper and paperboard in Contact with Aqueous and fatty foods - The product meets the requirements of this rule chapter.
- BfR – Recommendation XXXVI: Paper and Board for food contact – B: Production aids – III: Retention agents.
- GB9685 - Hygienic Standards for Uses of Additives in food containers and packaging materials.