



FORSCHUNG

BERATUNG

MESSTECHNIK

WEITERBILDUNG

Paper Technology Specialists
Services in the paper value chain

Services offered by the PTS Pilot Plant

Optimising the use of sizing agents in surface sizing

Objectives and Methodology

Objectives

- To reduce the water absorption of surface-sized liner by using sizing agents in the puddle
- To determine the optimum type and necessary amount to achieve Cobb 60 <20 g/m²

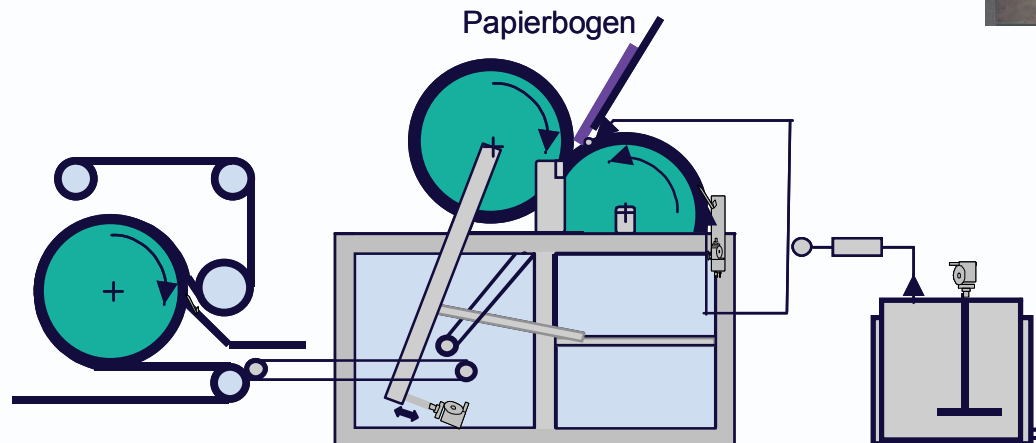
Methodology

- Use the predetermined starch and liner without surface sizing
- Surface sizing the liner in the pilot size press (sheet mode) using different sizes
- Determine water absorption

Test bench

Design data

format:	max. DIN A 3
operating speed:	max. 200 m/min
sizing solution per test:	15 l
nip pressure:	max. 20 kN/m
temperature:	max. 70 °C

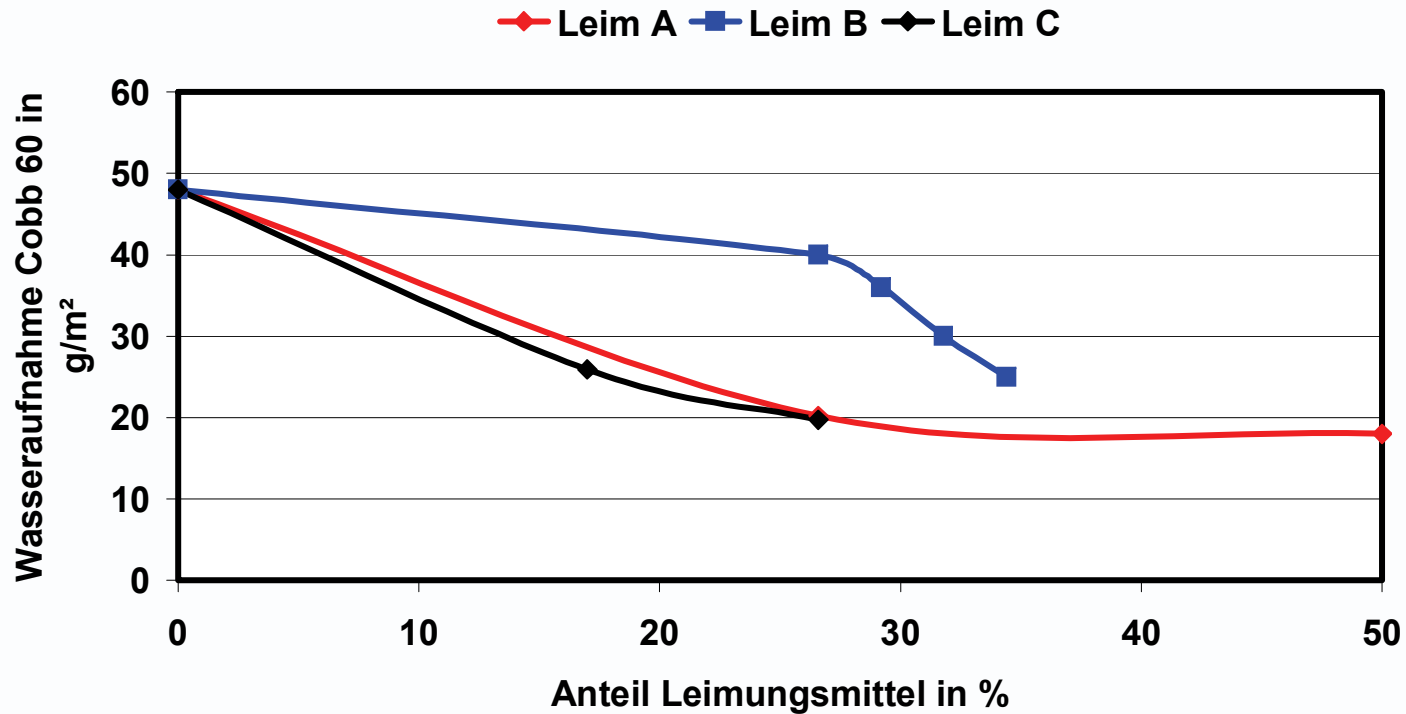


Trockner

Leimpresse

Oberflächenleim

Einfluss der Leimungsmittelart und -menge auf die Wasseraufnahme



The targeted Cobb value < 20g/m² is achieved by adding 30% of size A or size C or approx. 35% of size B

Benefits

- Practical optimisation of the use of starches and sizes for the surface sizing of paper and board
- Testing of a large number of developmental products under comparable conditions with little investment
- Rapid scale-up to commercial testing by quickly providing results (same-day results if conditioning is dispensed with)
- Only small amounts of base paper and sizing samples are necessary to conduct testing
- Recirculation of the sizing solution yields findings relating to temperature and shear stability

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