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Bilayered (silica-chitosan) coatings for studying dye release in aqueous media: the role of chitosan properties

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Highlights:

- Properties of chitosan coatings were studied by developing a bi-layer model system.
- Wettability tests gave information about the mobility of surface polymer segments.
- Swelling tests gave information about the mobility of bulk polymer segments.
- Both cross-linked chitosan coatings showed lowered permeability for cationic dye.
- Permeability was interpreted by the wetting and swelling properties of chitosan.

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