Accepted Manuscript

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

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PII: S0144-8617(15)00872-3

DOI: http://dx.doi.org/doi:10.1016/j.carbpol.2015.09.025

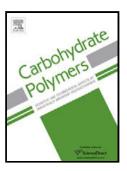
Reference: CARP 10327

To appear in:

Received date: 13-5-2015 Revised date: 24-8-2015 Accepted date: 10-9-2015

Please cite this article as: Dabóczi, M., Albert, E., Agócs, E., Kabai-Faix, M., and Hórv*ddoto*lgyi, Z.,Bilayered (silica-chitosan) coatings for studying dye release in aqueous media: the role of chitosan properties, *Carbohydrate Polymers* (2015), http://dx.doi.org/10.1016/j.carbpol.2015.09.025

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ACCEPTED MANUSCRIPT

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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