

Large area deposition technologies of multifunctional antibacterial and antiviral nanocoatings



Project No: 1.1.1.1/21/A/050

Duration: 01.01.2022. – 30.11.2023.

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Project partners: Sidrabe Vacuum SIA, Dr.Phys. Andris Fedotovs
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30.09.2022

About project implementation (01.07.2022 – 30.09.2022)

During the past research period of the project No.1.1.1.1/21/A/050 “Large area deposition technologies of multifunctional antibacterial and antiviral nanocoatings” the functionality of the roll-to-roll (R2R) equipment was expanded and large-area PET/WO₃/Cu/WO₃ samples production has been started.

- A linear actuator with a movable screen was designed, manufactured and placed in the sample production plant to ensure the creation of metallic Cu contacts on the sides of the samples.
- Calibration of the equipment was carried out, determining the thickness of the WO₃ layer depending on the oxygen flow, for the production of a new series of PET/WO₃/Cu/WO₃ large-size samples according to the specification submitted by the partners.
- The production of the new series of samples has been started.