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Development of a textile with Silica coating for environmental friendly control of insects in agricultural production

Deliverable [16 & 17]:

[D16: In-line installation of cold plasma coating machine & D17: Coated Textiles]

This project is co-financed by the European Union and Greek national funds through the bilateral Greece-Germany S & T Cooperation Program, Competitiveness, Entrepreneurship & Innovation (EPANEK) (project code: T2DGE-0120).

Project Details:

Programme: **Bilateral Greece-Germany S&T Cooperation Program, Competitiveness, Entrepreneurship & Innovation**

Call topic: **Agrofood**

Project Title: **Development of a textile with Silica coating for environmental friendly control of insects in agricultural production**

Project Acronym: **AgriTexSil**

Proposal Number: **T2DGE-0120**

Time Frame: **29/05/2018 – 28/08/2022**

Deliverable Details

WP: [6 Large scale fabrication of coated textiles]

Task(s): [6.1]: [Large scale coated woven and non-woven textiles]

Deliverable Title: [D16. In-line installation of cold plasma coating machine]

[D17. Coated Textiles]

Lead beneficiary: [Thrace NG]

Involved Partners: [P&S / ITA]

Deadline for delivery: month [24], [29/5/2020]

Date of delivery: [29/05/2020]

Del [11]: [Coated woven fabric]





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Del [11]: [Coated woven fabric]



1. Summary

According to the technical description of the project, the goal of the present deliverable was the installation of an in-line cold plasma machine at Thrace's production line. In cooperation with the P&S, were explored the technical details and the cost of such an installation. The outcome of this study was that several plasma nozzles would be necessary in order to cover the full length of the industrially produced fabric, launching the cost of the project to extreme heights, at least under the frame of a research project. Moreover, the productivity of these nozzles is very low compared to the speed of the industrial machine and the textile surface produced per hour. Consequently, the whole idea was abandoned and smaller dimension nets were coated using the lab-scale equipment of P&S.

Del [11]: [Coated woven fabric]



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The deliverable is available upon request

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D [10]: [Data of the fiber's characterization]

