Surface technologies to implies barrier onto rigid 3D structure and influence of surface preparation : spray deposition

Suzy Ruano

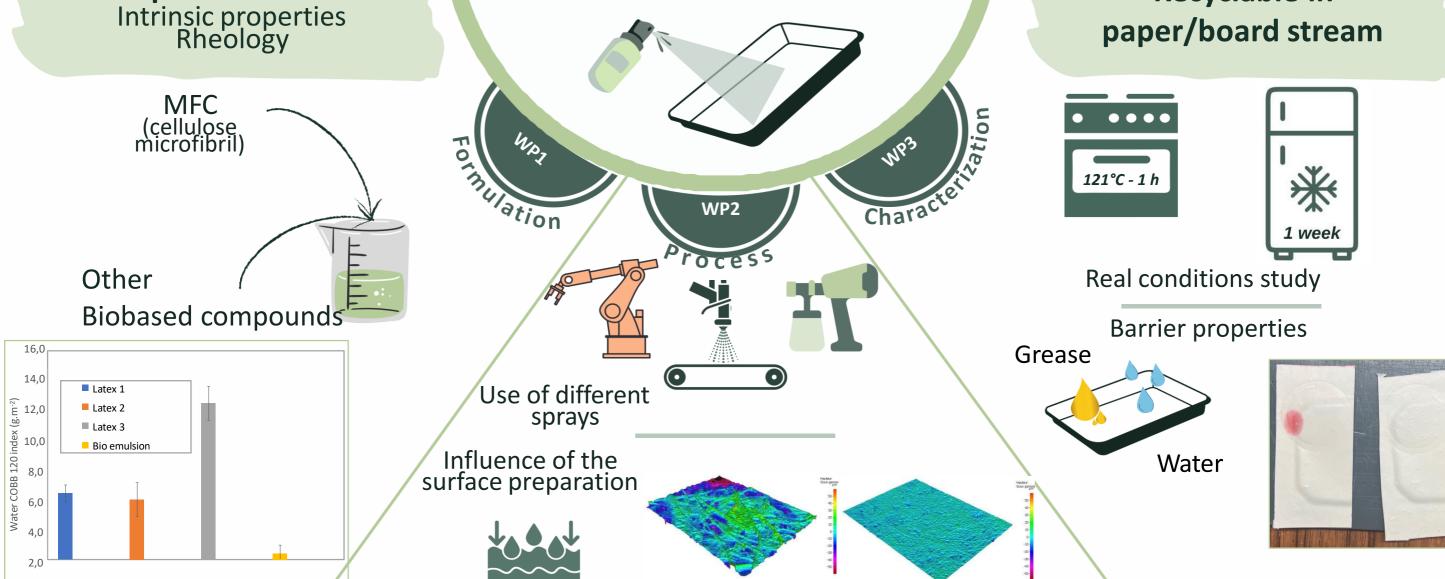
Grenoble-INP Pagora

Cellulose Valley BY FONDATION

GRENOBLE INP



Context 8,2% 1% Electronics **Building and construction Only 9% of plastic** 4% 2018 5% waste was recycled properly in 2019 **Textile sector** 2021 11% 8,3% Packaging 1,5% 335Mt 40% Transportation 11% 359Mt 90,8% Consumer and institutional products 12% 90,2% Fossil-based plastic Others 17% Post-consumer recycled plastic **Bio-based plastic** Origin of plastic waste in 2019 World plastics production OECD Environment Statistics, "Global Plastics Outlook : Plastic waste in 2019." May 28, 2022. Accessed: May 25, 2022. **SUP directive** Source: Conversio Market & Strategy GmbH and nova-**AGEC** law Institute Spray application process **BARRIER SPRAY COATING Properties studied Recyclable in**



paper/board stream

Demonstrator and conclusions



Spray coating is a complex application technique which takes into account many parameters : viscosity, type of nozzles, type of fluids, surface of the subtrate, ...

For an optimum spraying, the surface must be closed

Measurements in real-life conditions need to be carried out with the chosen commercial solution



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