



# Functional coatings for cellulosic fiber-based packaging



Currently, consumers are becoming more inclined towards eco-friendly packaging, but also governments are imposing strict regulations to promote the circular economy and reduce the environmental impact of packaging. These policies are causing a series of changes in plastic companies towards the development of more sustainable solutions that are recyclable, reusable, that incorporate recycled material but also towards the use of alternative materials such as paper and cardboard to obtain food and drink packaging.

Paper is a highly desirable material for a wide range of applications in packaging sector due to their advantages of low cost, lightweight, excellent mechanical properties, biodegradability, and renewability. However, it is a porous material, and it lacks from barrier properties, sealability and resistance to water and grease. Lamination and the use of coatings are commonly used methods to improve these properties. Thus, it is common to use polyethylene as laminates, but the recyclability of these structures presents a significant challenge. Regarding coatings, there are existing alternatives such as paraffin-based waxes, silicones or fluorocarbons (PFCs), which provide water repellence, but do not solve the recycling problem either and add, in some cases, an additional problem in terms of health and impact in the environment. Thus, there is an urgent need to address the above challenges by developing closed-loop approaches for water and grease resistant paper and to provide oxygen and water vapour barrier properties without affecting recyclability.

This webinar will identify the main trends and uses of fiber-based packaging, its main advantages and limitations, and the opportunity to use coatings to overcome these drawbacks. Within these, plastic and free-plastic coatings according to the SUP Directive will be discussed as well as the main properties they can provide and their improved EoL.

#### Plazo preinscripción

Hasta el 11 de noviembre 2024 o hasta completar aforo











Fecha y horario 12 de nov 2024

From 11:00 AM to 1:30 PM (CET)

Duración

1,5 horas lectivas

Ubicación

Online

Precio

Empresa asociada: 200€

Empresa no asociada: 250€

Unemployed 200€ 10% discount on the second attendee from the same company 10% discount if you register three weeks before the beginning of the course VAT not included

## **Objetivos**

- To introduce some highlights of the Regulatory framework applicable to the Packaging sector.
- To identify the main trends in the Packaging sector and the principal uses of fiber-based packaging.
- To evaluate the main advantages and limitations of the current alternatives for fiber-based packaging.
- To assess the main advantages of functional coatings for fiber-based packaging to improve the sustainability of the packaging.

# ¿A quién va dirigido?

- Workers of manufacturing companies for fiber-based packaging with printing capabilities. Technical managers, product development and research scientists.
- There are no education prerequisites about coatings materials
- Priority registration will be given to associated industrial companies and customers.

### **Temario**

REGULATORY FRAMEWORK - SUP DIRECTIVE



### NEW TRENDS IN THE PACKAGING SECTOR

- Use of alternative materials such as paper and cardboard
- Greenwashing

#### FIBER-BASED PACKAGING LIMITATIONS FOR FOOD AND DRINK PACKAGING

#### CURRENT ALTERNATIVES FOR FIBER-BASED PACKAGING

- Lamination with PE
- PFAS

#### FUNCTIONAL COATINGS FOR FIBER-BASED PACKAGING

- Advantages of using functional coatings
- Plastic coatings according to SUP (PLA, acrylic coatings, etc.)
- Plastic-free coatings according to SUP (natural polymers)

## Convocatorias abiertas

## 12 de nov 2024

From 11:00 AM to 1:30 PM (CET)

Online

## **Profesorado**



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## **Observaciones**

> Cancellation and Rescission Policy

## Organiza:

