

Biobased coating for fibre-based packaging

Summary

Profile type	Company's country	POD reference
Technology offer	Germany	TODE20241031006
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance	• World
Contact Person	Term of validity	Last update
Giovanni CHIACCHIO	31 Oct 2024 31 Oct 2025	31 Oct 2024

General Information

Short summary

The company is a German based start-up working on bio-based, non-fossil barrier coatings for fibre-based packaging, aiming to reduce plastics. Their solution is based on natural materials, can be applied using common application methods and focusses recyclability of the fibres. They are a spin-off from a German food manufacturer and they already supply industry-scale quantities. European industrial partners interested in implementing the solutions are sought.

Full description

Plastics are omnipresent and still indispensable in many areas of everyday life. But a German start-up has made it their mission to replace as much fossil-based plastic as possible with bio-based, non-fossil raw materials.

The company is specialised in bio-based solutions for customised coatings for the paper and packaging industry as well as converters and printers with a focus on food packaging. The start-up is a spin-off from a food manufacturer and thus familiar with the requirements and specifications in the sector.

The company's coatings provide customised barrier functionalities and at the same time deliver important properties for packaging processes. They offer complete coatings or additives that enhance the performance of existing solutions. The coatings are customised to suit individual requirements and related application technologies while

being shelf and process stable. All products are based on bio-based components and natural waxes. Furthermore, the solutions can be applied using common application methods and focus on the recyclability of the fibres.

Their offer includes:

- Barrier coatings based on natural materials that can be used on multiple fibre-based materials. The water, water vapour and grease barriers match or even surpass commercial acrylic or polyolefinic coatings.
- Barrier boosters for polymer coatings, i.e. a natural dispersion (water-based) that is able to enhance the water vapour and grease resistance of existing polymer coatings.
- Tailor-made dispersions for various applications.

Even though the company is a start-up, they can already supply industry-scale quantities.

European partners interested in implementing the solutions are sought.

Advantages and innovations

- Natural materials with improved barrier performances compared to conventional coatings
 - Tailor made solutions can be offered
 - Products allow recyclability of coated fibre-based substrates
 - Conventional application methods can be used
 - Experience in food industry
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Technical specification or expertise sought

Stage of development

Already on the market

IPR Status

Secret know-how

IPR Notes

Sustainable Development goals

• Goal 12: Responsible Consumption and Production

Partner Sought

Expected role of the partner

The German company seeks European industrial partners interested in adjusting and using the solutions in their

processes and products. The solutions will be tailored to the partners requirements.

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

- **SME 11-49**
- **SME <=10**
- **SME 50 - 249**
- **Big company**

Dissemination

Technology keywords

- **02007005 - Composite materials**
- **02007013 - Paper technology**
- **02007020 - Biobased materials**
- **02005004 - Packaging for materials**

Targeted countries

- **World**

Market keywords

- **08001007 - Coatings and adhesives manufactures**
- **08001006 - Processes for working with plastics**
- **08001004 - Fibre-reinforced (plastic) composites**
- **09004006 - Packing products and systems**

Sector groups involved