

Avantium Announces Offtake Agreement with PLIXXENT for FDCA in Insulation Foams

AMSTERDAM, 8 July 2025, 07:00 hrs CEST – Avantium N.V., a leading company in renewable and circular polymer materials, has signed a conditional offtake agreement for five years with PLIXXENT, a leading producer of polyurethane systems. Under this offtake agreement, PLIXXENT will purchase FDCA (furandicarboxylic acid), produced in Avantium's FDCA Flagship Plant, for the use in foams for insulation materials.

As a 100% plant-based and high-performance monomer, FDCA is emerging as a promising building block for sustainable materials. PLIXXENT has positively evaluated its application in polyester polyols and derived insulation polyurethane foams. FDCA-based insulation foam offers significant environmental benefits compared to traditional petrochemical-based foams, aligning with the increasing demand for eco-friendly building materials. It also demonstrates excellent performance in terms of thermal conductivity and flame behavior, both essential for effective insulation. Additionally, FDCA provides mechanical strength and dimensional stability, ensuring that the foam retains its structure and effectiveness over time.

Jörg Schottek, CEO of PLIXXENT, commented: "We are excited to collaborate with Avantium and integrate FDCA into our insulation foam products. This partnership aligns with our commitment to sustainability and innovation, providing our customers with high-performance, environmentally friendly solutions."

Tom van Aken, CEO of Avantium, added: "This offtake agreement with PLIXXENT marks our first step into the building materials sector and showcases the versatility of FDCA. It also demonstrates the growing interest in FDCA across various high-value applications, industries, and geographies. We're pleased to see how these sustainable materials can revolutionize everyday products and contribute to a greener future."

About PLIXXENT

PLIXXENT is Europe's leading independent polyurethane systems house, dedicated to advancing polyurethane technology and creating bespoke solutions tailored to various industries. For example in the Construction industry sustainable insulation innovations is key to building a greener future. Polyurethane systems are widely used in construction to improve energy efficiency, durability, and appearance. They also help reduce CO₂ emissions, lower energy costs, and increase indoor comfort. Beyond buildings, polyurethane systems are used in various industries such as energy, footwear, appliances, furniture, automotive and much more, offering versatile and eco-friendly solutions.

Founded in 2019 and headquartered in Hamburg, Germany, PLIXXENT specializes in the development, production, and processing of polymer materials for a wide range of applications. With a focus on sustainability, PLIXXENT aims to reduce the need for fossil fuels and achieve a positive lifetime energy balance through innovative products. The company prides itself on its flexibility, creativity, and reliability, offering comprehensive services from initial consultation to after-sales support.



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Press release

About Avantium

Avantium is a pioneering commercial-stage company focused on renewable & circular polymer materials. Avantium develops and commercialises innovative technologies for the production of materials based on sustainable carbon feedstocks, i.e. carbon from biomass or carbon from the air (CO₂). The most advanced technology is the YXY[®] Technology that catalytically converts plant-based sugars into FDCA (furandicarboxylic acid), the key building block for the sustainable plastic PEF (polyethylene furanoate). PEF is known under the brand name Releaf[®], an EU registered trademark of Avantium. Avantium has successfully demonstrated the YXY[®] Technology at its pilot plant in Geleen, the Netherlands, and is in the process of starting the world's first commercial plant for FDCA in Delfzijl, the Netherlands. Avantium works in partnership with like-minded companies around the globe to develop revolutionary renewable chemistry solutions from invention to commercial scale.

Avantium's shares are listed on Euronext Amsterdam and Euronext Brussels (symbol: AVTX). Avantium is incorporated in the Euronext Amsterdam SmallCap Index (AScX). Its offices and headquarters are in Amsterdam, the Netherlands.

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