

Michelman Provides Fiber Sizing Support for FibreCoat's Aluminum-Coated Basalt Fiber Innovation

Michelman has collaborated with FibreCoat, a high performance materials company, to support the launch of FibreCoat's aluminum-coated basalt fiber.

CINCINNATI, OH, UNITED STATES, January 21, 2025 /EINPresswire.com/ -- Michelman, a global developer of advanced materials, has collaborated with FibreCoat, a high performance materials company based in Aachen, Germany, to support the launch of FibreCoat's aluminum-coated basalt



fiber. This new fiber, AluCoat, was developed by FibreCoat to address the need for lightweight, conductive materials in applications such as electromagnetic interference (EMI) and radio-frequency interference (RFI) shielding, as well as thermal management for electric vehicles, consumer electronics, and energy storage.

“

Michelman has been a trusted partner for many years, providing technical support as we moved from research to commercialization.”

Dr. Alexander Lüking, Co-Founder at FibreCoat

Michelman's [Hydrosize® fiber sizing technology](#) plays a critical role in enhancing the performance and processability of FibreCoat's fiber for composite manufacturing. FibreCoat's patented aluminum-coating process partially or fully coats basalt fibers, combining the material's mechanical properties with aluminum conductivity. By integrating Michelman's Hydrosize® fiber sizing, the aluminum-coated fibers achieve key performance attributes necessary for reliable composite

applications. Michelman's sizing helps form stable fiber bundles, reducing fuzz and maintaining fiber integrity during processing, and supports weavability, making continuous fibers more spreadable. Additionally, the sizing ensures compatibility with the resin systems, and balances compatibility between the aluminum and basalt surfaces on the fiber.

“We are pleased to support FibreCoat as they bring this technology to market,” said Steve Bassetti, Michelman’s Director of Global Marketing, Fibers and Composites. “Their aluminum-coated basalt fiber addresses the needs of applications that require conductive and lightweight materials for EMI shielding and thermal management. Our collaboration demonstrates Michelman’s role in advancing fiber technologies with innovative companies like FibreCoat.”



The relationship between Michelman and FibreCoat began over a decade ago at the Institute for Textile Technology, which is part of RWTH Aachen University, where FibreCoat’s founders identified Michelman’s fiber sizing expertise as essential to their fiber’s performance. Throughout development, Michelman provided support as FibreCoat refined the fiber’s formulation to achieve optimal results.

“Michelman has been a trusted partner for many years, providing technical support as we moved from research to commercialization.” said Dr. Alexander Lüking, Co-Founder at FibreCoat. “Their willingness to assist us through trial and error allowed us to refine our fiber technology. “Hydrosize® fiber sizing ultimately helped us address key challenges, including maintaining a PFAS-free solution, ensuring smooth unwinding to prevent fibers from sticking together on the bobbin, and minimizing fuzz during processing.”

Zeineb Romdhane, Lab Coordinator at FibreCoat, noted “Achieving the right balance in the sizing application was crucial—too little sizing would lead to fiber separation, while too much could cause excessive adhesion. Michelman’s expertise enabled us to overcome these obstacles and deliver a consistently high-quality fiber for advanced composite applications.”

Michelman’s Hydrosize solutions will be on display at JEC World 2025, where they will exhibit in booth 5E135. Sizing experts will be on hand to discuss applications based on basalt, glass, carbon, and natural fibers, including both chopped and continuous formats. FibreCoat will also be exhibiting at JEC. The company’s innovative AluCoat solutions will be on display in booth 5F65.

[About Michelman](#)

Michelman is a global developer and manufacturer of environmentally friendly advanced materials for industry, offering solutions for the coatings, printing & packaging, and fibers &

composites markets. The company's surface additives and polymeric binders are used by leading manufacturers around the world to enhance performance attributes and add value in applications including wood and floor care products, metal and industrial coatings, paints, varnishes, inks, fibers, and composites. Michelman is well known as an innovator in the development of barrier and functional coatings, and digital printing press primers that are used in the production of consumer and industrial packaging and paper products, labels, and commercially printed materials. Michelman serves its customers with production facilities in North America, Europe and Asia, product development and technical service centers in several major global markets, and a worldwide team of highly trained business development personnel.

[About FibreCoat](#)

Founded in 2020 as a spin-off from RWTH Aachen University, FibreCoat specializes in advanced fiber coatings for industrial applications. With production facilities in Aachen and Georgia, FibreCoat has grown rapidly. The company's flagship product, AluCoat, offers lightweight and cost-efficient thermally and electrically conductive fiber-based materials. These materials are used for EMI shielding in automotive and aerospace or for radar countermeasures in defense. FibreCoat is continuously expanding its product portfolio by developing innovative coatings using other metals and polymers to meet diverse industrial needs. By providing localized production solutions through its modular coating systems, FibreCoat supports sustainable and scalable manufacturing worldwide.

Ms. Marce Epstein

Michelman

+1 513-794-7878

[email us here](#)

Visit us on social media:

[Facebook](#)

[LinkedIn](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/779008024>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.