

# Michelman to Spotlight Fiber-Polymer Interface Adhesion Expertise and Solutions for Technical Textile Apps at CAMX 2022

*The company will showcase its Hydrosize® and Hydrosize® Carbon fiber sizing solutions and its Unyte™ technologies for technical textiles at CAMX 2022.*

CINCINNATI, OHIO, UNITED STATES, August 16, 2022 /EINPresswire.com/ -- Michelman is a manufacturer of advanced materials, including fiber sizing and surface modifiers used to produce reinforced plastic composites.

As an industry leader in the development and production of innovative and novel water-based functional dispersions and emulsions of polymers, resins, and waxes, the company will showcase its Hydrosize® and Hydrosize® Carbon fiber sizing solutions and its Unyte™ technologies for technical textiles at CAMX 2022.



Michelman at CAMX 2022

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*Mr. Steve Bassetti*

Hydrosize® is Michelman's flagship line of sizing solutions designed for use in the manufacturing of glass, carbon, and natural fibers, including both chopped and continuous formats. They are used as lubricants, film formers, sizing agents, and binders during fiber manufacturing and composite processing. This technology allows fiber manufacturers to optimize the interfacial adhesion between the polymers and fibers by tailoring their reinforcement fibers' surface chemistry to the matrix

resin's chemistry. This improved interface adhesion helps fiber producers and composite manufacturers produce stronger, lighter, and more durable composite parts.

Michelman will also feature their line of Hydrosize® Carbon solutions that allow customers to leverage carbon fiber's unique qualities and produce higher-quality composite parts. It also

helps further exploit the traditional benefits of composites: design freedom, consolidation of parts, and integration of functionality while meeting light-weighting initiatives. Composites that require high-temperature processing typically require the use of high-temperature polyamide, polyimide, PPS, and PAEK-based resins.

Select Hydrosize® Carbon grades provide excellent thermal stability and are specifically designed to withstand elevated processing and subsequent applications. Furthermore, the various grades offer a wide variety of solutions depending on resin compatibility, fiber type, and desired composite performance.

According to Mr. Steve Bassetti, Michelman's Director, Global Marketing for the company's Fibers & Composites business group, "While fiber sizing accounts for a small percent of the finished product, it has a significant impact on the final properties of composite parts. Optimizing fiber polymer interfacial adhesion with Hydrosize® enhances the performance of numerous mechanical and chemical properties, including thermal and hydrolytic stability, corrosion resistance, heat and oil resistance, impact strength, tensile and flexural strengths, compressive strength, fatigue performance, and electrical conductivity. It is a critical component that produces high-quality, high-performance composites."

Michelman's Unyte™ brand is a versatile family of water-based technologies that help achieve advanced form and function in woven and nonwoven materials used in the design of technical textiles and pre-preg fabrics. These solutions enhance textile products' performance by improving adhesion, binding, processability, and chemical & heat resistance. The Unyte™ Bind series offers multiple solutions that improve fiber-to-fiber adhesion. Unyte™ Grip promotes the adhesion between fibers and polymeric matrices, helping to improve various functional or mechanical properties. Unyte™ Slip is beneficial for fabrics, nonwovens, and pre-pregs that need to be stacked or rolled without sticking together. Finally, Unyte™ Resist products are designed to provide excellent wet-out and moisture/chemical resistance to fabrics. They impart performance benefits, including chemical resistance, water resistance, and hydrophobicity under humid conditions to fabrics, wovens, and nonwovens.

Michelman will exhibit in booth #X26 at CAMX 2022, being held October 17-20 at the Anaheim Convention Center in Anaheim, CA.

#### 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.

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