



News Release

Great partnerships create strong solutions. Ashland showcases multiple innovations at China Composites Expo 2017

Shanghai, China, September 6, 2017 – Chemical processing and water treatment, building and construction, wind energy, transportation, and more. These are among the many industries that have an ever-increasing need to balance materials' structural integrity, usability, and long-term durability against overall performance, weight and cost. Unfortunately, wood rots, metal corrodes and concrete cracks and spalls. Commercial and residential designers and OEM's face many challenges associated with traditional building and construction materials and continuously seek new approaches to century-old issues.

Ashland's solvers are passionate about creating corrosion-resistant, fire-retardant, durable materials for customers that can outperform traditional ones. The company will showcase multiple composites solutions during the China Composites Expo 2017, booth #501, hall 1.

The innovations include epoxy vinyl ester resins for corrosion-resistance, scratch-resistant gelcoats with UV-light stability, high modulus resins for improved paintability, low-density sheet-molding compound technology and more.

Ashland has a robust portfolio of innovations to maintain the right balance of performance, cost and weight and helps deliver superior end-use products in virtually every aspect of the construction process. From high performing, cost-effective thermoset resins, to cellulose ethers, specialty corrosion-resistant resins, and structural adhesives, Ashland's tenacious teams help amplify the efficacy, refine the usability, add to the allure, ensure integrity, and improve the profitability of customers' products and applications.

Proven performance for critical reliability

Research has shown that Ashland Derakane™ epoxy vinyl ester resins for fiber reinforced plastics (FRP) outperform stainless steel and rubber-lined steel products when it comes to process equipment used for chemical processing, water treatment and pollution control, mineral processing and other harsh environments. Derakane™ resins are the materials of choice for flue gas desulfurization (FGD) systems, to help coal-fired power plants protect the

structural integrity of components used to clean exhaust before its release into the atmosphere. The resins have been specified successfully for more than 50 years and the applications include chimney liners, gas scrubbers and industrial coatings systems and gas cylinders etc.

Strong enough to catch the wind

On trend with the growing alternative energy segment, Ashland has created resins that resist corrosion and deterioration that often occurs from exposure to water and salt. Aropol™ and Envirez™ unsaturated polyester resins are the proven materials for high-performance wind composite parts, including blades and nacelles.

Making waves

Based on years of solving boat builders' challenges, Ashland has demonstrated expertise, innovative products and technical service to help boat builders add to the allure of their vessels while becoming more productive and profitable. Ashland's Aropol™ and AME™ resins and Maxguard™ gelcoats can improve the efficacy while providing excellent aesthetics with sheen, durability and toughness. When combined with customers' manufacturing process, Ashland resin systems meet or exceed regulatory requirements for volatile organic compounds and hazardous air pollutant limits. Ashland's premier gelcoat, Maxguard™, has excellent UV resistance. It is also hydrolysis resistant and complies with Lloyd's Register Quality Assurance China Classification Society (CCS) and China fishing vessel rules.

Heavy about light weighting, Ashland drives innovative composite solutions for transportation

In response to the increased demand for lightweight construction in automotive engineering, Ashland has a broad range of solutions for original equipment manufacturers, suppliers and automotive manufacturers, made from composites that offer high mechanical and impact properties while reducing mass. "Replacing traditional metal components with molded composites helps reduce a vehicle's weight and is as a sustainable step to increase gas mileage," said Mike Chen, general manager, Ashland Composites, Asia Pacific.

In addition to improving the structural integrity of the auto body, Ashland also developed a patented high-modulus resilient technology to prevent surface micro cracks during the assembly plant paint processes.

"Light weight, combined with strength, durability and design freedom make composite materials a perfect match for many industries providing long-lasting engineered solutions," Chen said. "Helping keep boats, recreational vehicles and truck caps looking like new, Ashland's passionate, tenacious solvers bring

exceptional product knowledge, technical support and industry insights to help our customers improve their processes and the products they produce,” Chen said.

To learn more about how Ashland solves industry challenges with sustainable, effective, innovative solutions across diverse markets including building and construction, infrastructure, transportation, marine and energy visit www.ashland.com.

About Ashland

Ashland Global Holdings Inc. (NYSE: ASH) is a premier global specialty chemicals company serving customers in a wide range of consumer and industrial markets, including adhesives, architectural coatings, automotive, construction, energy, food and beverage, personal care and pharmaceutical. At Ashland, we are nearly 7,000 passionate, tenacious solvers - from renowned scientists and research chemists to talented engineers and plant operators - who thrive on developing practical, innovative and elegant solutions to complex problems for customers in more than 100 countries. Visit ashland.com to learn more.

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