

News Release

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Merck KGaA, Darmstadt, Germany, to Showcase Innovative Architectural Solutions at BAU 2019

- **Merck KGaA, Darmstadt, Germany, contributes to innovative architecture with Liquid Crystal Windows and coating solutions for building façades**
- **Presentation of prestigious architectural project with smart solar shading windows**
- **Protective coating demonstrations of innovative architectural solutions**

Darmstadt, Germany, December 13, 2018 – Merck KGaA, Darmstadt, Germany, a leading science and technology company, today announced that will showcase a selection of innovative architectural solutions at BAU 2019. At the exhibition, the company will feature its newly launched dynamic solar shading windows eyrise™ s350 as well as its protective coating solution for building façades Durazane®. BAU, the world's leading trade fair for architecture, will take place from January 14 to January 19, 2019 in Munich, Germany.

"In modern architecture, meeting functional and aesthetic needs fuels the demand for smart innovations. Our range of products for the architecture sector support both functionality and design to bring creative visions to life and transform the spaces where we live," said Michael Heckmeier, Head of Display Solutions within the Performance Materials business sector of Merck KGaA, Darmstadt, Germany.

eyrise™ s350: Unleashing the power of "lightwellness"



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In October, Merck KGaA, Darmstadt, Germany, unveiled its new product brand for dynamic liquid crystal windows *eyrise™* and announced the commercial launch of *eyrise™ s350*. The new instant solar shading windows provide unparalleled comfort, or a “*lightwellness*” effect. This is achieved by cutting solar glare on demand to instantly adjust indoor light, while preserving transparency and color neutrality to the outdoors. With an unrivaled range of sizes, shapes and colors, *eyrise™ s350* also offers architects exceptional design freedom for aesthetic expression.

The Kirow Niemeyer Sphere and the FC Group’s new headquarters building are two of the first *eyrise™* projects currently underway. The Niemeyer Sphere located at the headquarters of the crane manufacturer Kirow in Leipzig, Germany, is one of the last works of renowned Brazilian architect Oscar Niemeyer. The prestigious architectural project will be realized using triangular versions of liquid crystal windows from Merck KGaA, Darmstadt, Germany. Additionally, the FC Group’s new headquarters building in Karlsruhe, Germany will become the first *eyrise™* full-façade installation. The building is scheduled to open in 2019 and was designed by the architects at 3deluxe.

At the BAU exhibition, the company will showcase the Niemeyer XS pavilion, an impressive demonstration of its contribution to the Kirow Niemeyer Sphere. The six-meter-high partial replica of this project will allow BAU attendees to experience both the outdoor and indoor impact of dynamic window technology from Merck KGaA, Darmstadt, Germany.

eyrise™ s350 is powered by *licrivision®*, the company’s liquid crystal material solution for dynamic glass. “With *eyrise™*, we have successfully expanded our expertise in liquid crystals to a new and unique technology for intelligent window systems. We are proud to be the top liquid crystal material supplier of this new application and the driver of this innovative solution,” Michael Heckmeier underscores.

Durazane™: Protecting the life of exterior surfaces

Building façades are permanently exposed to sunshine, rain, moisture, and snow. With the organic polysilazane *Durazane™*, Merck KGaA, Darmstadt, Germany, provides a powerful solution for the protection of exterior surfaces. High-

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temperature stability, water and dirt repellency, scratch protection and corrosion prevention are some of the unique properties offered by Durazane™ to keep surfaces looking and feeling pristine.

Merck KGaA, Darmstadt, Germany, will also present its new WAY technology that prevents yellowing and provides resistance against weathering, chemicals and temperature for plastics applications. The special encapsulation of these pigments imparts high UV stability, enabling them to withstand even extreme conditions. This makes the WAY technology especially interesting for architectural applications with their inevitably high exposure to sunlight. Visitors to the company's booth can observe the metallic effects of these highly functional pigments in the frames of the liquid crystal windows. Merck KGaA, Darmstadt, Germany, will also be showcasing a number of additional architectural applications from its pearlescent effect pigments portfolio, offering visitors an opportunity to experience the "touch and feel" of the different coatings.

The Merck KGaA, Darmstadt, Germany, booth at BAU will be located in Hall C, booth #538.

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About Merck KGaA, Darmstadt, Germany

Merck KGaA, Darmstadt, Germany, a leading science and technology company, operates across healthcare, life science and performance materials. Around 51,000 employees work to make a positive difference to millions of people's lives every day by creating more joyful and sustainable ways to live. From advancing gene editing technologies and discovering unique ways to treat the most challenging diseases to enabling the intelligence of devices – the company is everywhere. In 2017, Merck KGaA, Darmstadt, Germany, generated sales of € 15.3 billion in 66 countries.

The company holds the global rights to the name and trademark "Merck" internationally. The only exceptions are the United States and Canada, where the business sectors of Merck KGaA, Darmstadt, Germany operate as EMD Serono in healthcare, MilliporeSigma in life science, and EMD Performance Materials. Since its founding 1668, scientific exploration and responsible entrepreneurship have been key to the company's technological and scientific advances. To this day, the founding family remains the majority owner of the publicly listed company.