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Dow Corning Introduces Innovative New Sealants at Window Door Façade Expo China, Extends 50-Year Leadership in Building & Construction Silicones

GUANGZHOU, CHINA – March 11, 2017 –Dow Corning, a global leader in silicones, silicon-based technology and innovation and a wholly owned subsidiary of The Dow Chemical Company, introduced here today at Window Door Façade Expo China (in booth 6F18) a range of advanced new silicone technologies for the Asia Pacific building and construction industry. These include *Dow Corning*® 121 Structural Glazing Sealant for repair or replacement of structural glass; *Dow Corning*® 896 PanelFix Silicone Adhesive; and the *Dow Corning*® PanelFix system, a complete fixation system for elastic bonding of ventilated façade panels. The company is also featuring at the show its recently launched *Dow Corning*® 796 Window and Door Installation System Silicone Sealant, which is designed for perimeter sealing of polyvinylchloride (PVC), glass, brick, concrete and composite materials.

Dow Corning, which has participated in Window Door Façade Expo for more than 15 years, is also presenting at the show's Academic Exchange conference: Jerry Ma, senior technical manager, Dow Corning, is speaking. His presentation, titled "Reliable Silicone Technology Helps Build Safe and Sustainable Buildings," is during the Anti-Typhoon Session on March 11 at 16:10.

"Dow Corning continues to develop new, industry-leading silicone technologies to meet evolving industry mandates, from greater sustainability to increased protection against a range of natural and man-made threats," said Jean Paul Hautekeer, global strategic market director, Building and Construction, Dow Corning. "Building upon our 50 years of exceptional industry leadership, we are creating products that are helping our building and construction customers in Asia expand design frontiers to steadily increase the safety, durability, energy efficiency and aesthetics of tomorrow's buildings."

Advanced Silicone Solutions for Asia Pacific

Dow Corning 121 Structural Glazing Sealant is a neutral-cure, room temperature vulcanization (RTV) silicone sealant for on-site and in-shop repair or replacement of structural glazing – including storefront systems or the attachment of panel stiffeners. It delivers durable, ultraviolet (UV)-resistant performance and excellent movement capability. Compared with slow-curing one-part sealants, this product offers increased efficiency and productivity, enabling repairs that can be completed in 24 hours instead of the standard 14-21 days. Its unique one-to-one mix ratio, two-part cartridge and included static mixer make it simple to dispense without the need for special equipment.

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The new *Dow Corning* PanelFix is a complete fixation system for façade cladding, comprised of *Dow Corning* 896 PanelFix Silicone Adhesive, *Dow Corning*® PanelFix Tape and *Dow Corning*® Primers and Cleaners.

Highly elastic *Dow Corning* 896 PanelFix Silicone Adhesive is specifically designed for non-glass panel applications that require extreme durability and fast handling. It provides primerless adhesion to a variety of substrates, such as anodized aluminum and mineral substrates and, with extensive movement capability, is well suited for any size panel. In the factory, it is used to bond hooks onto the panel. On site, together with PanelFix Tape, the adhesive enables direct application of façade panels to the subframe.

The *Dow Corning* PanelFix system is currently the only silicone-based adhesive method assessed and awarded technical approval by the British Board of Agrément (BBA) for bonding rainscreen cladding panels – both in the factory and on site. Because it eliminates the need for metal fasteners between the panel and the supporting structure that require additional thickness, lighter-weight, less-expensive cladding options can be used. This adhesive system also enables a virtually invisible bond, which improves the aesthetic appearance of the façade.

For installers, the PanelFix solution provides time-saving features including easy surface preparation, fast handling and instant green strength.

Another featured product, *Dow Corning* 796 Window and Door Installation System Silicone Sealant, is a one-part, low-modulus, neutral-curing sealant popular for perimeter sealing. It delivers good adhesion to polyvinylchloride (PVC) and a wide range of other substrates, and resists degradation from ozone, UV light and temperature extremes. Its low modulus (25LM) is a key factor in high-quality, long-lasting window seals. *Dow Corning* 796 Sealant conforms with China's GB/T 14683-2003 standard.

Dow Corning's high-performance silicone materials are widely used in many of China's most notable high-rise buildings, including the Shenzhen Ping An International Finance Center, the Shanghai Center, the Guangzhou TV Tower and the Hong Kong International Finance Center.

Shop Tmall.com at the Dow Corning Booth

The Dow Corning booth is showcasing its Tmall.com Flagship Store, which gives contractors and consumers a new, online channel to purchase high-quality Dow Corning sealant products and receive real-time support services. Designed to look like a living room, the Tmall.com exhibit presents the six Dow Corning products offered through the e-commerce platform:

- Kitchen and bathroom silicone sealant used in moist conditions
- Stone decoration silicone sealant used in waterproof seams
- Doors and windows silicone sealant applicable to window and door installment

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- Plumbing and roof silicone sealant used in metal planks
- Glass glazing silicone sealant used in quick airtight glass-cementing
- A multifunctional general purpose silicone sealant

Window Door Façade Expo China 2017 runs from March 11-13, at the Poly World Trade Center in Guangzhou, China.

About Dow Corning

Dow Corning (dowcorning.com), a wholly owned subsidiary of The Dow Chemical Company, provides performance-enhancing solutions to serve the diverse needs of more than 25,000 customers worldwide. A global leader in **silicones**, silicon-based technology and **innovation**, Dow Corning offers more than 7,000 products and services via the company's Dow Corning® and **XIAMETER**® brands. More than half of Dow Corning's annual sales are outside the United States. Dow Corning's global operations adhere to the American Chemistry Council's Responsible Care® initiative, a stringent set of standards designed to advance the safe and secure management of chemical products and processes.

About Dow

Dow (NYSE: DOW) combines the power of science and technology to passionately innovate what is essential to human progress. The Company is driving innovations that extract value from material, polymer, chemical and biological science to help address many of the world's most challenging problems such as the need for clean water, clean energy generation and conservation, and increasing agricultural productivity. Dow's integrated, market-driven, industry-leading portfolio of specialty chemical, advanced materials, agrosiences and plastics businesses delivers a broad range of technology-based products and solutions to customers in approximately 180 countries and in high-growth sectors such as packaging, electronics, water, coatings and agriculture. In 2015, Dow had annual sales of nearly \$49 billion and employed approximately 49,000 people worldwide. The Company's more than 6,000 product families are manufactured at 179 sites in 35 countries across the globe. On June 1, 2016, Dow became the 100 percent owner of Dow Corning Corporation's silicones business, a global company with sales of greater than \$4.5 billion in 2015, 25 manufacturing sites in 9 countries and approximately 10,000 employees worldwide. References to "Dow" or the "Company" mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. More information about Dow can be found at www.dow.com.

About High Performance Building Solutions

Dow Corning is collaborating with industry professionals around the world to develop solutions to improve the energy efficiency of buildings, offer long lasting solutions and excellent technical support. Taking a holistic approach, Dow Corning brings together expertise from across the company to help customers find solutions to a wide range of high performance building challenges. Dow Corning High Performance Building Solutions include proven materials for structural and protective glazing, weatherproofing, insulating glass, window and door fabrication, and building materials protection, as well as innovations for high-efficiency insulation, LED lighting, thermal management systems, and the incorporation of photovoltaic cells and solar panels into building design.

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PHOTOS: The *Dow Corning*® 121 Structural Glazing Sealant Can be Used for the Repair or Replacement of Structural Glass (left) and the *Dow Corning*® 896 PanelFix Silicone Adhesive is Used for Elastic Bonding of Ventilated Façade Panels (right).

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