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Dow Unveils Two New Silicone Adhesives Formulated to Deliver Fast, Flexible Processing Options for the Assembly of Consumer Devices and Displays

New DOWSIL™ SE 9100 and DOWSIL™ SE 9160 Adhesives represent the latest innovations in Dow's industry-leading portfolio of silicone bonding solutions.

MIDLAND, Mich. – June 4, 2018 – Dow Performance Silicones, a global leader in silicones, silicon-based technology and innovation, further enhanced design flexibilities and processing options for consumer device and display OEMs today with the addition of DOWSIL™ SE 9100 and DOWSIL™ SE 9160 Adhesives to its portfolio of one-part, room-temperature cure (RTV) silicone solutions. In addition to offering versatile processing options, the two new silicone adhesives bond well to most substrates, deliver excellent rework ability with no residue, exhibit high flow to fill narrow gaps, and enable cure-in-place-gaskets (CIPG) that offer effective seals compatible with IPX7-rated water resistance.

DOWSIL™ SE 9100 Adhesive is a one-part silicone formulation that achieves fast tack-free processing at room temperature with the option to accelerate cure with the application of heat. It demonstrates low (< 1 percent) shrinkage by volume after cure to minimize internal stress for optimal sealing, and offers cost-effective processing and reparability during the assembly of mobile and display modules and other consumer devices.

DOWSIL™ SE 9160 Adhesive exhibits many of these same properties, yet its dual-cure formulation offers the option of faster in-line processing through irradiation with ultraviolet (UV) energy at densities as low as 4,000mJ/cm² to component assembly to continue within seconds. Higher densities (10,000mJ/cm²) enable the material to quickly achieve full, deep section cure. In addition, in designs where the silicone adhesive is partially "in shadow" from the UV lamp, Dow's new innovative silicone adhesive will still secure rapid moisture cure.

DOWSIL™ SE 9160 Adhesive is suitable for sealing small- to medium-sized consumer devices such as smart phones, tablets and displays. It is particularly effective at sealing air gaps or holes between LCD or OLED display panels and their plastic cover frames.

"Consumer device manufacturers are under constant pressure to make their products more reliable, more profitable and packed with ever more features," said Jayden Cho, global marketing segment leader, Consumer Devices at Dow Performance Silicones. "These two highly innovative silicone adhesives aim to help our global customers successfully address all three of these challenges as they push the boundaries of their next-generation device designs."

Dow's two new adhesives are available globally under the new DOWSIL™ label, which builds on seven decades of innovation and proven performance from the heritage Dow Corning silicone technology platform.

About Dow Performance Silicones

Performance Silicones, a unit within Dow's Consumer Solutions business, delivers a portfolio of performance-enhancing solutions to serve the diverse needs of customers and industries around the world. From transportation and lighting to building and construction and chemical manufacturing, Dow's Performance Silicones business helps our customers solve their most challenging problems. As a global leader in innovation and silicon-based technology, we are committed to bringing new solutions to the market that do more for our customers and continue to improve the lives of consumers worldwide. Visit <https://consumer.dow.com/en-us.html> to learn more.

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About Dow

The Dow Chemical Company (Dow) combines science and technology knowledge to develop premier materials science solutions that are essential to human progress. Dow has one of the strongest and broadest toolkits in the industry, with robust technology, asset integration, scale and competitive capabilities that enable it to address complex global issues. Dow's market-driven, industry-leading portfolio of advanced materials, industrial intermediates, and plastics businesses deliver a broad range of differentiated technology-based products and solutions for customers in high-growth markets such as packaging, infrastructure, and consumer care. Dow is a subsidiary of DowDuPont (NYSE: DWDP), a holding company comprised of Dow and DuPont with the intent to form three strong, independent, publicly traded companies in agriculture, materials science and specialty sectors. More information can be found at www.dow.com.

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