



Dow Performance Silicones

Peerless Products, Inc., Improves Performance and Reduces Human Error with DOWSIL™ InstantGlaze Window Assembly Sealant



Case Study: Peerless Products



City and Country
Fort Scott, Kansas, USA

Product*
• DOWSIL™ InstantGlaze Window Assembly Sealant

Key Participants
• **Window Manufacturer**
Peerless Products
• **Silicone Sealant Provider**
Dow

*Prior to February 2018, products listed were branded as Dow Corning.

The Challenge

One flawless window isn't good enough – on any job site. Every window has to meet both industry specifications and customer demands related to durability, weatherability, safety, and aesthetics. Peerless Products, Inc., one of the premier providers of windows in the Midwest, has consistently exceeded those specifications since 1952.

To remain an industry leader, Peerless is continually upgrading its manufacturing – integrating new technologies that provide higher levels of quality and consistency. In 2005, Coby Jones, chief engineer at Peerless, took a critical look at what many consider

an industry staple – glazing tape – and decided that, to remain at the forefront of the industry, a change was in order.

“Tape glazing is a slow, labor-intensive process that often has to be repeated due to poor application – and just as often results in leaky windows after years of use,” Jones explained. “We wanted a new solution that didn't require hand application and offered customers a higher level of quality, reliability, and longevity.”

The Solution

To identify an alternative for traditional tape glazing, Jones turned to Dow, which has been supplying high-quality sealant

and adhesive materials to Peerless for years. Dow recommended DOWSIL™ InstantGlaze Window Assembly Sealant, the industry's only silicone hot melt window assembly sealant.

“[Dow] is one of the most respected brands in the residential and commercial construction industries,” Jones said. “Based on the company's recommendation and product demonstrations, we switched all of our operations to [DOWSIL™] InstantGlaze [Window Assembly] Sealant.”

DOWSIL™ InstantGlaze Window Assembly Sealant is a 100% silicone hot melt sealant that can be applied



robotically using standard dispensing equipment and automated X-Y glazing tables. When compared to other non-tape sealant technologies, including alternative hot melt materials or natural cure systems, the sealant provides excellent adhesion, better aesthetics due to less waste material, and superior flexibility.

The Results

“After a year and a half in operation, we have yet to replace a single Peerless window because of performance issues related to the [DOWSIL™] InstantGlaze [Window Assembly] Sealant,” Jones said. “We’ve also seen benefits we didn’t expect,

such as better wind resistance due to the flexibility of the sealant and safer handling because of automated application. We believe that the technology behind [DOWSIL™] InstantGlaze [Window Assembly] Sealant will be the industry standard within ten years.”

Whether it’s for a small rural church or a 40-story commercial office building, Peerless offers window solutions that meet the rigorous specifications of both customers and the industry, while working with Dow to explore and commercialize the technologies that will define the future of residential and commercial construction.

Contact Us

Dow is collaborating with industry professionals around the world to develop solutions to improve the energy efficiency of buildings for a more comfortable environment. Learn more about Dow’s full range of High Performance Building solutions by visiting us online at **consumer.dow.com/construction**.

Dow has sales offices, manufacturing sites and science and technology laboratories around the globe. Find local contact information at **consumer.dow.com/ContactUs**.

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