



Dow Performance Silicones

Improve Product Performance and Productivity with DOWSIL™ InstantGlaze Window Assembly Sealant



Case Study: Thermo-Tech Windows



City and Country

Sauk Rapids, Minnesota, USA

Product*

- DOWSIL™ InstantGlaze Window Assembly Sealant

Key Participants

- Thermo-Tech Windows
- Dow

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

Challenge

A Thermo-Tech window is much more than a frame and a few pieces of glass. Each window is a complex fusion of highly technical components and raw materials. At the same time, most of the questions consumers ask their contractors and builders are more straightforward – “Will it start to leak in five years?” or “What impact will it have on my heating bill?”

Jeff Hochstein, the plant manager at Thermo-Tech’s facility in central Minnesota, understands the relationship between these simple questions and the technology behind each Thermo-Tech window better than most.

“We are always looking for new solutions to better address issues like water and air infiltration,” he explained. “In doing so, we often consult with our leading material suppliers, like [Dow], for recommendations on new products and processes.”

Solution

On Dow’s recommendation, Hochstein integrated DOWSIL™ InstantGlaze Window Assembly Sealant, the industry’s first and only silicone hot melt window assembly sealant, into his production process.

“[Dow] has a long history of helping us improve both our products and our

production process,” Hochstein said. “The company’s products, like [DOWSIL™ InstantGlaze Window Assembly Sealant], and its support staff have helped us continually explore and implement new technologies that meet our customers’ needs.”

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. The sealant provides excellent adhesion, aesthetics, and flexibility, among other performance advantages.



Results

“Using [DOWSIL™ InstantGlaze Window Assembly Sealant], we were able to exceed our customers’ air and water infiltration requirements,” Hochstein said. “At the same time, we were able to use the same application equipment we had in place for other materials, but at higher speeds and lower operating temperatures. We improved our productivity rates and, just as important, improved the safety inside the plant.”

With help from material science leaders like Dow, Thermo-Tech continues to explore new ways to advance window design based on the needs of contractors and customers. At the same time, new material solutions such as DOWSIL™ InstantGlaze Window Assembly Sealant make the production process safer and more efficient, allowing Thermo-Tech to concentrate on producing products that will help define the future of the industry.

Contact Us

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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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