

Customer

Bloomberg Tower is a 54-story, 1.4 million square feet, mixed-use building encompassing retail, commercial and residential space.

Challenge

The architect needed to ensure that the glass and aluminum curtain wall, which is integral to the Bloomberg Tower, was functional and aesthetically pleasing.

Solution

Baker Metal Products of Dallas, Texas, fabricated the customized curtain wall units using UltraGlaze and SilPruf sealants and adhesives in the glazing process. SilPruf NB was used to perform integral stack joint and perimeter seals to provide a clean, neat appearance.

Results

The combination of UltraGlaze, SilPruf and SilPruf NB sealants and adhesives provided an excellent weather-resistant and waterproof seal that can offer long-lasting performance.

Designed by the renowned Cesar Pelli & Associates Architects, 731 Lexington Ave. is home to the global media company, Bloomberg. Bloomberg Tower is a 54-story, 1.4 million square feet, mixed-use building encompassing retail, commercial and residential space.

Silicone Sealants: A Combination of Function and Aesthetics

The gleaming glass and aluminum curtain wall is integral to the unique design of the Bloomberg Tower. It helps the retail space, tower and 10-story base podium maintain their distinctiveness while still adding to the overall aesthetic appeal. A key job specification for the commercial space curtain wall contractor, Enclos Corp., was ensuring that the curtain wall was functional and aesthetically pleasing.

"From the outset, we worked very closely with the curtain wall consultant and our curtain wall supplier to ensure that the engineering, design, fabrication and installation of the curtain wall met the requirements at each stage of its evolution," said Lee Steffens, the project lead at Enclos Corp. "Based on the performance of GE silicones on other projects and the service provided by the sales team, we decided to use GE silicone products for the 731 Lexington Ave. project."

Enclos Corp. hired Baker Metal Products Inc. of Dallas, Texas, to fabricate the customized curtain wall units. UltraGlaze* SSG4400 and SilPruf* SCS2000 sealants and adhesives were applied in the glazing process. UltraGlaze, a high-modulus, neutral-curing structural silicone elastomeric adhesive, offers significant advantages when used in the fabrication and shop glazing of curtain wall modules. It offers a fast and thorough deep-section cure when mixed, and quickly generates strength to facilitate faster processing of frames. UltraGlaze silicone can tenaciously adhere to many types of substrates including glass, ceramic frits, glass coatings, fluropolymer paints and powder coatings, as well as conversion-coated and anodized aluminum. Application to most of these substrates does not require prior application of primer. An excellent candidate to consider for both weathersealing and structural glazing applications, SilPruf is a single-component, medium-modulus, neutral-cure silicone



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Case Study

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Lee Steffens
Project Lead, Enclos Corp.

In addition to their excellent performance benefits, GE sealants offer great system compatibility. GE sealants’ weatherproofing, structural glazing and insulating glass products are compatible with each other. When used together, GE sealants can provide sealing performance, durability and long-lasting weatherability.

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sealant adhesive which may be used on a wide variety of materials and has been improving global construction projects since 1974.

A Stain-Free Finish With SilPruf NB Sealant

The glazed curtain wall units were transported to the construction site and a team from Enclos Corp. used SilPruf NB sealant to perform integral stack joint seals providing a watertight seal between the curtain wall units. SilPruf NB silicone sealant has been specially formulated to help reduce dirt pick-up and minimize surface streaking – attributes many other types of silicones cannot provide. SilPruf NB is a one-part, neutral-cure, medium-modulus silicone sealant that is an excellent candidate to consider for use in butt or expansion lap shear joints in weatherproofing and glazing applications subject to movement.

GE sealants can also offer good system compatibility. When cured properly, UltraGlaze, SilPruf and SilPruf NB sealants and adhesives together can provide an excellent weather-resistant and waterproof seal that can offer long-lasting performance.



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CDS:Case SSG4400/SCS2000