

DOW

®

Lightweight PV modules with DOWSIL™ Adhesives

The rising prominence of solar energy introduces a range of new challenges and opportunities. Utilizing building real estate to harness the power of the sun is trending and is increasing energy independence.

Lightweight panel installation

Traditionally, photovoltaic modules have been heavy devices, consisting of glass panels and metal frames, often too heavy for many building structures and required mechanical fasteners penetrating the roof membranes or heavy ballast systems..

New innovative lightweight photovoltaic module designs have been developed and introduced in the market and the use of structural adhesives has emerged as a viable alternative to mechanical fastening methods. These advancements offer a lightweight and cost-effective solution for attaching photovoltaic modules directly to various substrates.

Benefits of structural adhesives

Structural adhesives can help prevent damage and disruption to a building's roof structure. By avoiding the necessity of drilling holes, these adhesives reduce future risks of water intrusion and leaks. They also lighten the whole structure and enable PV applications on roofs with limited load bearing capacity.

Selecting a structural silicone adhesive can help to protect the panel from extreme weather and high wind loads. The right silicone structural adhesive supports a robust, durable connection between the panels and the substrate surviving time and weather elements.

DOWSIL™ 895 Structural Sealant provides robust, versatile, and long-lasting solutions for lightweight panel installation for roofing applications. Tests in Dow labs ensure that the bonding system is fit for use, with adhesion tests to the substrates in the application, including the roofing substrate, substructures, and the rear panel material. As an industry trusted provider of structural adhesives and weather sealing technologies, Dow and its distribution network is fully equipped to service your next architectural solar project. Our high class service and reputable warranty program helps to ensure you can rest easy knowing your energy source is secured by DOWSIL™ Adhesives.



[DOWSIL™ 895 Structural Glazing Sealant](#)



For projects outside of Europe please inquire about
[DOWSIL™ 995 Silicone Structural Sealant](#)

For more information

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