

## UNDERSTANDING APPLICATION WITH ADHESIVES

We know as well as anyone that finding the right adhesive and bonding materials for your application (that also meet your sustainability goals) can be difficult. Moreover, understanding which application method is right for your application is crucial to enabling the most effective output. Therefore, we thought you would benefit from reading our latest posts in our Knowledge Box to help you narrow down your choices.

We are constantly researching the most innovative applications of adhesives and the role they will play in the growth of bonded wall cladding and building markets in the coming years.

If you like what you see, read and hear, don't forget to follow us on LinkedIn to take advantage of weekly information focused on new adhesive materials and equipment.

Structural adhesives have become a responsible and widely applied methodology for connecting facade panel materials. This is not only due to their aesthetic benefits but primarily because of their ability to evenly distribute stress across a joint.

When connecting sheet materials, it is important to consider the types of stresses to which the joint will be exposed. These forces may include tensile, compressive, and shear forces, as well as thermal and dynamic loads. In traditional methods of connecting sheet materials, such as screws or hooks, the connection point, where a concentration of stress occurs, becomes the 'weakest link in the chain,' ultimately leading to fatigue and failure.

Additionally, mechanical fasteners tend to loosen under dynamic loads or vibrations. Structural adhesives, however, distribute the occurring stresses evenly across the entire bonded surface. Together with their elasticity, this ensures a strong and durable connection.

Another advantage of using structural adhesives is their contribution to reducing the overall weight of the facade structure, leading to lower operating costs. Furthermore, the use of structural adhesives helps reduce wear on facade materials, including supporting structures, enhancing lifespan and reliability.

Aesthetic considerations also play a significant role in adhesive bonding. In contrast to traditional methods such as screws and hooks, structural adhesives create a clean and invisible connection, free from visible fasteners.

By using structural adhesives, facade builders can create strong, lightweight, and aesthetically appealing facade structures that are also resistant to extreme stress and loads.