

## Enabling Innovation and Durable Bonds

Adhesive solutions are an integral part of nearly every kind of finished good in the marketplace today. From electronics devices, building materials, packaging and filters to furniture, cars and clothing. Commitment to continuous adhesive innovation helps deliver products that are smaller, stronger, faster, thinner and much more. Durable adhesive bondings contribute to longer product life, delivering strength and flexibility under challenging circumstances, such as humidity, physical impact or high temperature fluctuations.

At H.B. Fuller, innovation is not just about our products. It is something we practice every day, as we help customers optimise their businesses and meet their sustainability objectives. By operating in a variety of different industries, we can even contribute to the cross-pollination of innovative solutions between industries.



Reducing CO<sub>2</sub> emissions by enabling light-weight solutions



Improved energy efficiencies in the production process

### LIGHTER FURNITURE FOR REDUCED CO<sub>2</sub> EMISSIONS

Adhesives play an important role in the use of extra light materials in furniture production. These materials often consist of expanded paper covered with high density fibreboard (HDF), using about 300kg material per cubic metre, whereas medium density fibre (MDF) panels use 660kg of material per cubic metre. Considering that the weight of a product has an impact on its CO<sub>2</sub> footprint during transportation – weight reduction also contributes to the reduction of the CO<sub>2</sub> footprint of furniture.

A global furniture manufacturer with a strong focus on sustainability has been advocating the adoption of lightweight furniture for some years now, with the objective of 70 percent of their production to be lightweight furniture by 2025. Rakoll® woodworking adhesives contribute not only to the stability of these materials, but also to their performance, giving lightweight elements an increased moisture or heat resistance for instance, increasing their durability and, therefore, helping to reduce waste.



### PROMOTING ENERGY CONSERVATION, EFFICIENCY AND DURABILITY

Across a wide range of industries, H.B. Fuller's reactive hot melt adhesives enable more efficient manufacturing by reducing waste and improving throughput. Used in a variety of applications, including flooring, doors and recreational vehicle (RV) sidewalls, their high green strength enables customers to move from lamination to secondary manufacturing without interruption. The result is reduced cycle times, increased output and energy conservation.



Back to FEICA Examples of Sustainable Developments

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