



Professional adhesive expertise with proven reliability

In a rapidly growing (and global) RV market, manufacturers need suppliers, such as H.B. Fuller, with its proven Icema™ range of adhesives for sandwich panel lamination production, who are focused on accelerating innovative thinking and developing reliable, smart technology.

Words John Rawlings

H.B. Fuller was founded by Harvey Benjamin Fuller more than a century ago, who had a vision to formulate innovative, convenient and economical adhesives. Now, H.B. Fuller adhesive solutions have become an integral part of nearly every kind of finished goods one can find in the market place, including 30 years of supplying the RV sector.

During this time, H.B. Fuller has constantly innovated to face several challenges as RV manufacturers have demanded strong bonds for the production of walls, roofs and floor panels. There have also been many changes in materials, such as: natural wood, wooden materials, aluminium, EPS, XPS, GRP, etc. The H.B. Fuller Icema™ 145 adhesives range has been able to provide the correct bonding to keep up with the changing materials and production processes.

For sandwich panel lamination, the Icema™

R 145 adhesives range includes a wide range of one-component, liquid PU, developed to meet different conditions in terms of reactivity and adhesion to any material used in the RV industry. It offers a very strong bond, allowing manufacturers to create a high quality and durable panel, proven by the brand's continuous presence in the RV sector over such a long period of time.

To face the demand for lighter, cheaper materials and better quality finishing for panels, H.B. Fuller has launched a new grade of high performance adhesive, the Icema™ 1456 with a low foaming behaviour,

while keeping all the usual characteristics and functionalities of the Icema™ range in terms of reliability, adaptability to different applications and processes, and excellent adhesion.



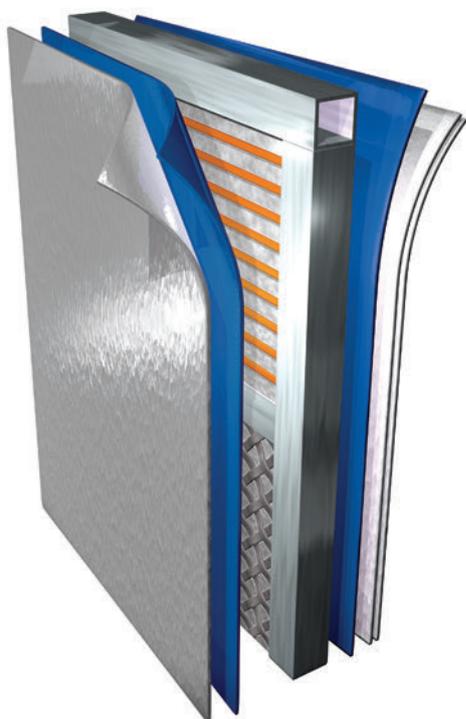


Material layers

H.B. Fuller's Icema™ one-component, polyurethane, moisture cure adhesive products deliver consistent, reliable and strong bonds. From liquid to pastry viscosities, this adhesive offers suitable open times to address a wide range of application requirements. This includes: cladding and sandwich panels, aluminium honeycomb panels, filters and abrasives manufacturing.

Its sandwich panel lamination adhesives allow bonding of a wide range of materials to wood and does not change the status of wood as a renewable resource. They can be used in manual, semi-continuous or continuous production lines and by different application systems, such as roller, slot die, spray, extrusion.

Materials capable to be bonded with the different sandwich panel adhesive systems are wood (MDF, plywood, particle fiber board, natural wood), metal (aluminum, galvanized steel, steel), PVC and rigid polyester.



Foaming occurs with all one-component liquid PUs when curing because CO₂ is generated during the process. This can create bubbles, which can lead to imperfections in the finishing. To combat the inevitable CO₂ generation, the Icema™ 1456 controls the bubble making, allowing a better finish of the external surfaces.

H.B. Fuller | KÖMMERLING offers a one-stop solution, and can now supply every technology needed for the production of high quality recreational vehicles. Every day, it listens and collaborate with its customers to deliver the technical solutions and panel lamination adhesives that help them thrive.

Icema™ is a trademark of H.B. Fuller Company ("H.B. Fuller") or an affiliated company of H.B. Fuller, and is registered in the European Community and Germany.

Company profile

H.B. Fuller

From a one-man wallpaper paste shop in Minnesota in 1887, H.B. Fuller has grown into a \$3 billion adhesives global leader today. Its recent acquisition of Royal Adhesives and Sealants, including the KÖMMERLING Chemische Fabrik GmbH business, created a unique powerhouse of RV adhesive and sealant expertise, supplying products for every conceivable RV application.

Kömmerling

Headquartered in Pirmasens, some 170 km south west of Frankfurt, and founded in 1897, Kömmerling is a leading international manufacturer of high-quality adhesives and sealants. In this capacity, it has been supplying the RV industry in Europe and beyond for more than 20 years. It became a member of H.B. Fuller's global network through the company's acquisition of Royal Adhesives & Sealants in October 2017.

