

ENCLOSURE SEALING BEYOND THE EXPECTED SEALING SOLUTIONS FOR BATTERY HOUSING

BUILDING TRUST



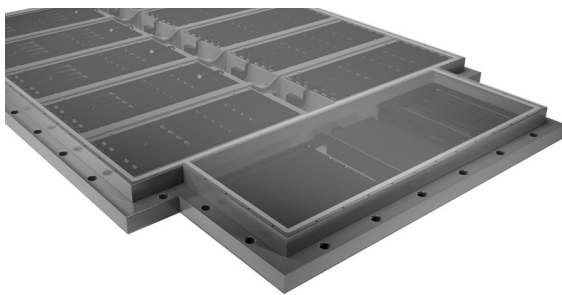
SEALANTS FOR BATTERY

EFFICIENT APPLICATION WITH FAST CURING

EFFICIENCY REALISED WITH SIKA. Sealing is at the heart of what Sika do. From the very first sealant method developed over 100 years ago, our core competency has remained the same, being a market leader in the field of sealant technologies. Our long-term experience allows Sika to pull on this experience to produce new and modern solutions for the highly technical demands of the battery market.



Automated application of Sikaflex® sealants along with Sika® Booster technology is commonplace in many industrial and automotive settings. With this level of expertise available to our customers Sika is a reliable partner for developing processes in the application of battery enclosure sealing materials. Utilizing Sika® Booster technology allows for fast and secure sealing of the battery pack so end of line pressure and leak tests can be conducted quickly allowing the fast flow of product at end of line.



Enclosing the battery pack, also called battery lid sealing is made secure with Sikaflex® materials. After application, the wet applied product will conform to many surfaces and allow for tolerances across the pack to achieve the seal required from water, air and dust ingress. Sika can support these applications with adhesion tests to the materials used in the pack to ensure the right product is chosen for the application.

Product Family	Sealing Application		Key Benefit
	Technology	Typical Sealing of	
Sikaflex® + SikaBooster®	1C PU	Lid	Accelerated curing and adhesion build-up.
Sikaflex®	2C STP	Tray	Minimal pre-treatment required for most common substrates like aluminium.

INNOVATION IN SEALING

ADDITIONAL SEALING METHODS FOR MODULES OR CELL-TO-PACK FORMATS

INNOVATIVE SOLUTIONS WITH SIKA:

Continuous improvement is at the heart of our R&D teams globally and Courage for Innovation is one of our core values. Alongside sealant methods utilising Sikaflex® and Sika® Booster Technology we have new, cutting edge products to enhance our customers production processes whilst maintaining the demanding high quality requirements for safety in the battery market. CIPG or Cure-in-place-Gaskets are based on polyurethane chemistries which enable quick automated application and provide easy access later in the products life to facilitate service, reuse or recycling. Alongside CIPG, elastic foaming for potting of battery cells will give additional sealing performance whilst providing a lightweight solution to keep weight down. silicone, STP, MMA, epoxy, hybrids, hot-melts, and PSA technologies. The products offer flexibility in the manufacturing process, the potential for increasing throughput, as well as industry-leading performance.

“SIKA'S EXPERIENCE WITH POLYURETHANE TECHNOLOGIES ALLOWS US TO BRING DIVERSE FORMULATIONS TO MARKET FOCUSSED ON CUSTOMER NEEDS. THIS GIVES US THE ABILITY TO BRING KEY INNOVATIONS TO THE BATTERY MARKET.”

Stuart Selwood, Global Business Development Manager E-Mobility

CURE-IN-PLACE-GASKETS

- FAST PROCESSING
- EXCELLENT COMPRESSION PROFILE
- EASY SERVICEABILITY

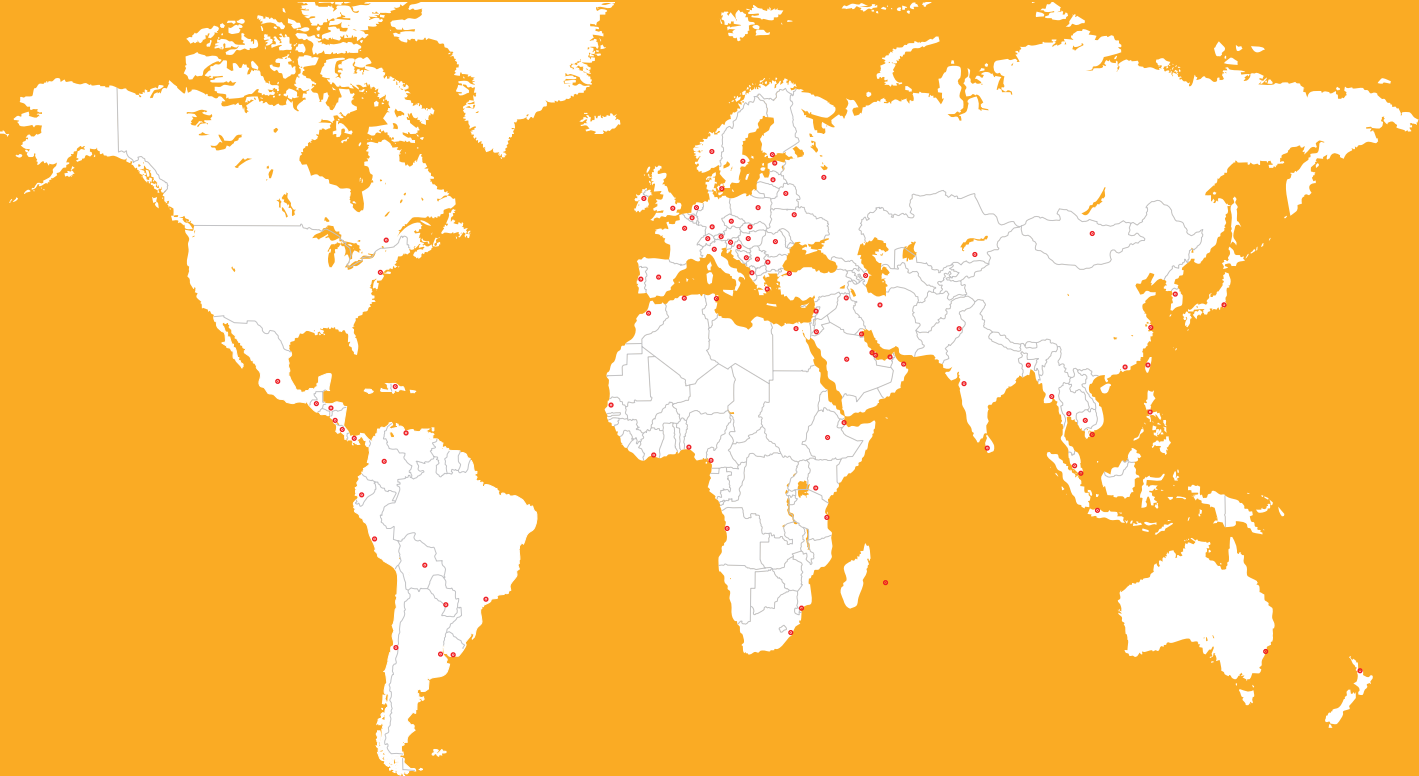
ELASTIC FOAM ENCAPSULATION

- LIGHTWEIGHT
- EXCELLENT FLOW BEHAVIOUR
- HIGH THERMAL INSULATION



SEALING WITH SIKA. Good sealing is integral for optimum performance and safety in the battery environment, whether for mobility applications or stationary energy storage. Finding the balance between securing the battery housing along with systems to allow for easy access are an important contributor to the circularity required in battery development. Sikas wide range of solutions will provide options for manufacturers and their diverse array of battery designs to go beyond safety and performance expectations.

GLOBAL REACH BUT LOCAL PARTNERSHIP



FOR MORE INFORMATION:



automotive.sika.com

Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.



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