AUTOMOTIVE
BETTER VEHICLES
START WITH SIKA
LIGHTER | STRONGER | SAFER | QUIETER | GREENER
YOU NEED TO FIND WAYS TO MAKE YOUR NEXT VEHICLE LIGHTER, STRONGER, SAFER, QUIETER OR GREENER.

SO WHERE DO YOU START?
Start with a trusted partner that can deliver global innovation on a localized scale, wherever and whenever it’s needed. Start with a commitment to continuous improvement, and the knowledge that it takes years to become an overnight success. Start with a collaborative approach that can bring together great minds without knocking heads. Start with pioneering innovation that clears a path for the vehicles of the future.

START WITH SIKA.
With a full suite of bonding, damping, sealing and reinforcing solutions, Sika is a key strategic partner for both OEMs and component suppliers. By collaborating on advanced development projects and engaging early in program development, we help customers optimize designs, identify cost savings and reduce complexity.
# CONTENT

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>Global Resources and Expertise</td>
</tr>
<tr>
<td>06</td>
<td>Innovation, It Starts with Passion</td>
</tr>
<tr>
<td>09</td>
<td>Body Shop Structural Inserts</td>
</tr>
<tr>
<td>11</td>
<td>Acoustic Systems</td>
</tr>
<tr>
<td>13</td>
<td>Body Shop Adhesives</td>
</tr>
<tr>
<td>15</td>
<td>Assembly Line Adhesives</td>
</tr>
<tr>
<td>17</td>
<td>Exterior Adhesives</td>
</tr>
<tr>
<td>19</td>
<td>Interior Adhesives</td>
</tr>
<tr>
<td>21</td>
<td>Paint Shop Sealants</td>
</tr>
<tr>
<td>22</td>
<td>Capabilities</td>
</tr>
<tr>
<td>24</td>
<td>Global Locations</td>
</tr>
<tr>
<td>26</td>
<td>About Sika</td>
</tr>
</tbody>
</table>
MORE INNOVATIVE SOLUTIONS
IN MORE PLACES

40 MILLION VEHICLES
IN 2014, MORE THAN 50% OF THE VEHICLES PRODUCED WORLDWIDE UTILIZED SIKA PRODUCTS AND TECHNOLOGIES.
GLOBAL RESOURCES AND EXPERTISE

OUR PRODUCT PORTFOLIO INCLUDES solutions for bonding, sealing, damping and reinforcing for vehicle BIW, body structure, interior and exterior components. It’s a wide-ranging solution-set that gives us the ability to support customers in multiple areas of their manufacturing processes, and provides insight into their broader challenges.

We consistently apply those insights to our R&D efforts and the result is a stream of product and process innovations that help our customers build lighter, stronger, safer, quieter and greener vehicles.

SUPPORTING CUSTOMERS ON A TRULY GLOBAL SCALE
As a true partner to the global automotive community, our manufacturing facilities, research and development centers, and partner co-operation footprints are well positioned to support customers throughout the world.

Strategic regional placement allows Sika to deliver greater cost savings and shorter lead times for our products, and accelerated development and implementation of new technologies, which benefits existing and new customers alike.

As the global automotive industry continues to evolve, we continue to enhance our global capabilities to better support our customers.
AT SIKA, WE BELIEVE that a truly innovative company is one that starts with a culture within which a passion for innovation and creativity thrive. An innovative company should also take a customer-focused view; one that anticipates customer needs with a thorough understanding of key market trends.

LIGHTER WEIGHT
We have a full range of products which enable our customers to make their vehicles lighter. For example, we were the first to engineer body shop adhesives (SikaPower®), which enable mixed-material bonding of lighter materials such as aluminum, carbon fiber reinforced plastic, as well as traditional and high strength steel.

STRONGER AND SAFER
We were the pioneer in vehicle body reinforcements with our SikaStructure® and SikaReinforcer® products, which not only help stiffen the vehicle for better overall dynamics but also improve crash performance and increase vehicle occupant safety.

QUIETER
We provide solutions that make vehicles quieter; SikaBaffle® seals noise pathways while SikaDamp® reduces the body panel vibration that contributes to audible noise in the vehicle. Both products are engineered for best-in-class weight-to-performance ratio. Used together, or separately, our industry leading acoustics solutions improve vehicle occupant comfort.

GREENER
We were the first to develop glass bonding pre-treatment systems which, when in use, contain and release fewer volatile organic compounds – a more environmentally friendly approach that easily outperforms the industry’s previous generation of products.

VALUE-ADDED INNOVATION
We continuously develop new, cost-effective solutions, which allow our customers to use less material, where possible, or reduce complexity in their manufacturing process. SikaPower® structural adhesives, for example, allow the reduction of welds in vehicle body sections, while strengthening overall crash durability.
OUR WORLDWIDE NETWORK of 19 Technology and Development Centers throughout the Americas, Europe and Asia includes a dedicated staff of more than 1,200 R&D team members. Through the collaborative nature of Sika’s product creation process, our R&D teams work closely with Sika’s extensive engineering, technical service and manufacturing teams. This approach accelerates the transition from innovations in the laboratory to products in the vehicle. Overall, the creative use and deployment of our R&D resources contributes substantially to products and technologies, which helps our customers to make a better vehicle.

SEVEN-STAGE PROCESS
TO ENSURE THAT NEW AND PATENTED PRODUCTS ARE BROUGHT TO MARKET AT AN ACCELERATED PACE, OUR TEAMS FOLLOW A SEVEN-STAGE PRODUCT CREATION PROCESS FOR PRODUCT DEVELOPMENT.
MORE THAN 20% WEIGHT REDUCTION
IN THE CAR BODY CAN BE ACHIEVED WHEN SIKA PROPRIETARY HIGH STRENGTH BONDING SOLUTIONS ARE USED IN CONJUNCTION WITH LIGHTWEIGHT MATERIALS AND THINNER MATERIAL CONSTRUCTION.
BODY SHOP STRUCTURAL INSERTS
Safer Rides: Adding Strength, Maximizing Design Potential

OUR VERSATILE STRUCTURAL INSERT technologies reinforce car body structures while delivering a variety of process and performance benefits, including improved acoustics. Three-dimensional parts are designed with a SikaStructure® carriage and then secured using either a thermal epoxy foam (SikaReinforcer®) or an adhesive (SikaPower®). Together, these technologies help create lighter weight, high-performance structures, and enable the creation of a new generation of car body concepts.

KEY PRODUCTS

<table>
<thead>
<tr>
<th></th>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SikaReinforcer®</td>
<td>Adding strength, not complexity</td>
</tr>
<tr>
<td>2</td>
<td>SikaStructure®</td>
<td>Lightweight crash or stiffening performance</td>
</tr>
<tr>
<td>3</td>
<td>SikaPower®</td>
<td>High-strength bonding for structural applications</td>
</tr>
<tr>
<td>4</td>
<td>Sikamid®</td>
<td>Multi-purpose raw material for highly engineered injection-molded parts</td>
</tr>
</tbody>
</table>
30% INTERIOR NOISE REDUCTION
WHEN COMBINED WITH SIKA REINFORCEMENT SOLUTIONS,
OUR ACOUSTIC SYSTEMS CAN HELP REDUCE INTERIOR
VEHICLE NOISE BY AS MUCH AS 30% (3dB).
NOISE, VIBRATION AND HARSHNESS (NVH) complaints are among the most common concerns cited in new vehicle quality studies, but addressing them by simply adding weight often creates new engineering challenges. Our Acoustic Systems utilize lightweight pre-shaped, molded, extruded and die-cut parts within the primary body structure. By sealing the vehicle body cavities, common noise transmission paths are efficiently blocked. We also utilize laser vibrometer analysis to identify body panel vibrations (which can lead to audible noise) and significantly reduce them by using strategically placed dampers. The combined acoustic system helps prevent noise from reaching the passenger compartment, all without adding significant weight to the vehicle.

**KEY PRODUCTS**

1. SikaBaffle® - An impressive body of sealing options
2. SikaDamp® - Exceptional cost/weight-to-performance
3. SikaSeal® - An impressive body of sealing options
4. Sikamid® - Multi-purpose raw material for injection-molded parts
20 MILLION VEHICLES
EACH YEAR, OUR BODY SHOP ADHESIVES HELP MAKE 20 MILLION VEHICLES STRONGER AND SAFER.
SAFETY AND SUSTAINABILITY HAVE become key considerations in vehicle design and manufacturing. Performance, economic and legislative targets have all driven the need for bonding solutions that can improve stiffness, crash durability and fatigue performance, all while focusing on continued weight reduction. Sustainability contributions include the ability to reduce or eliminate spot welds, and a contribution to reduced utility costs in the assembly process. Sika provides a wide range of innovative and proven adhesives for crash durable, semi-crash, structural, hem-flange, anti-flutter, mastic and general sealing applications.

KEY PRODUCTS

1. **SikaPower®** High-strength bonding for structural applications
2. **SikaSeal®** An impressive body of sealing options

IMPACT TEST RESULTS:

(A) Spot welded
(B) Spot welded + SikaPower® crash resistant structural adhesive
150,000L REDUCTION IN VOC’S
OUR INNOVATIVE PRE-TREATMENT SYSTEMS FOR DIRECT GLAZING HELP TO ELIMINATE 150,000 LITERS OF VOC’S ANNUALLY FROM THE MANUFACTURING PROCESS.
FOR ASSEMBLY LINE PROCESSES – both robotic and manual – we provide high-performance solutions for direct glazing and component bonding, as well as body sealing. We also offer innovative elastic bonding solutions for mixed-material joining and metal panel stiffening.

<table>
<thead>
<tr>
<th>KEY PRODUCTS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Sikaflex®</td>
<td>High-performance primerless PUR adhesives</td>
</tr>
<tr>
<td>2 SikaForce®</td>
<td>Multi-purpose polyurethane-based adhesives</td>
</tr>
<tr>
<td>3 SikaTack®</td>
<td>Fast curing repair adhesives</td>
</tr>
<tr>
<td>4 Pre-treatments</td>
<td>Innovative water-based pre-treatment solutions (Sika HydroPrep®)</td>
</tr>
</tbody>
</table>
25 MILLION HEADLAMPS
SIKA’S ADHESIVE TECHNOLOGIES ARE USED BY OEMS IN THE PRODUCTION OF MORE THAN 25 MILLION HEADLAMPS ANNUALLY.
EXTERIOR DESIGN ISN’T JUST about good looks – components like sun roofs, headlamps, spoilers and tailgates also play an important role in functionality, aerodynamics, driver visibility and vehicle safety. Assembly and bonding of those components to the exterior, presents its own unique challenges. Our exterior bonding technologies provide an efficient and proven way to bond exterior automotive parts, while keeping weight low, meeting expectations for environmental performance and accommodating manufacturing requirements.

<table>
<thead>
<tr>
<th>KEY PRODUCTS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Sikaflex®</td>
<td>High-performance primerless PUR adhesives</td>
</tr>
<tr>
<td>2 SikaForce®</td>
<td>Multi-purpose polyurethane-based adhesives</td>
</tr>
<tr>
<td>3 Sikasil®</td>
<td>Silicone-based adhesives for demanding bonding and sealing applications</td>
</tr>
<tr>
<td>4 SikaMelt®</td>
<td>Multi-purpose hotmelt adhesives</td>
</tr>
</tbody>
</table>
25 MILLION VEHICLES PRODUCED ANNUALLY WORLDWIDE CONTAIN SIKA LAMINATION ADHESIVES.
A FLEXIBLE MANUFACTURING CONCEPT can create almost unlimited options for the consumer, particularly in the world of interior trims. Interior bonding is a vital part of this vision, but the increasing mix of challenging material combinations must be accommodated. Our technologies for lamination, flocking and assembly allow designers to create attractive, soft feel surfaces while still meeting the process and technical application requirements. These low-emission products (including a family of classification-free products) allow for easy application, short cycle times, and enable bonding to the most difficult substrates like polyethylene, polypropylene and polyamide 66.

**KEY PRODUCTS**

1. **SikaMelt®** - Multi-purpose hotmelt adhesives
2. **SikaSense®** - Multi-purpose adhesives for interior parts applications
3. **SikaTherm®** - Multi-purpose adhesives for flocking and lamination applications
35% of all vehicles produced in South America use Sika paint shop sealers for better acoustic performance and corrosion protection.
FINDING MORE ENERGY-EFFICIENT and environmentally friendly paint systems is a critical challenge for automotive manufacturers. We offer a wide range of paint shop sealers to meet the cost, performance and environmental targets of our customers. Superior acoustic performance, lightweight, and compatibility with modern paint systems are key drivers for our dedicated R&D Team. Through a strategic investment in the most efficient modern production equipment, we have been able to meet, and more often exceed, the automotive industry’s highest standards.

KEY PRODUCTS

<table>
<thead>
<tr>
<th></th>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SikaSeal®</td>
<td>An impressive body of sealing options</td>
</tr>
<tr>
<td>2</td>
<td>Sikaflex®</td>
<td>Reliable performance across a broad range of applications</td>
</tr>
</tbody>
</table>
CAPABILITIES
Supporting Our Commitment to Innovation and Our Customers
VALIDATION AND TECHNICAL SUPPORT
Our Technical Services team is focused on validating Sika materials to the processes, substrates and specifications required by OEM customers.

SYSTEMS ENGINEERING
Our Systems Engineering experts work to ensure our bulk adhesive and sealant products can be seamlessly integrated into our customers’ production processes.

PART CREATION, VALIDATION AND TESTING
Our extensive team of experienced engineers are focused on creating part designs for SikaBaffle® and SikaReinforcer® solutions, with the goal of delivering an optimal mix of function, weight and cost.

MATERIAL DEVELOPMENT
Our Materials team carries out extensive testing of products and characterization of polymeric and inorganic compounds to ensure we have a full understanding of the products we design.

SURFACE CHARACTERIZATION
Our state-of-the-art surface characterization labs allow us to study the surfaces of a wide variety of materials and substrates to determine the best ways to bond and seal them.

TOOLING AND COMPOSITES
Our Tooling and Composites Unit, based in Germany, develops solid and liquid plastics (based on epoxy and polyurethane chemistry) for use in model, mold, tool and prototype (up to series production) applications.

WITH A SKILLED STAFF of engineers and scientists, who are among the most innovative in the industry, we’re able to deliver a stream of proven new materials and process improvements to our OEM and OES customers.
**GLOBAL LOCATIONS**
Supporting Customers on a Truly Global Scale

**AS A TRUE PARTNER** to the global automotive community, our manufacturing facilities, research and development centers, and co-operative manufacturing footprints are well positioned to support customers all over the world. Strategic regional placement allows us to deliver greater cost savings and shorter lead times for our products, and accelerated development and implementation of new technologies, which benefits existing and new customers alike.

<table>
<thead>
<tr>
<th>Sales/Customer Service</th>
<th>Manufacturing</th>
<th>Warehouses</th>
<th>Manufacturing Co-operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Madison Heights, MI - USA</td>
<td>Grandview, MO - USA</td>
<td>Camacari, Brazil</td>
<td>Lyon, France</td>
</tr>
<tr>
<td>São Paulo, Brazil</td>
<td>Marion, OH - USA</td>
<td>Puebla, Mexico</td>
<td>Lille, France</td>
</tr>
<tr>
<td>Buenos Aires, Argentina</td>
<td>Lyndhurst, NJ - USA</td>
<td>Betim, Brazil</td>
<td>Bilbao, Spain</td>
</tr>
<tr>
<td>Widen, Switzerland</td>
<td>São Paulo, Brazil</td>
<td>Cordoba, Argentina</td>
<td>Sopron, Hungary</td>
</tr>
<tr>
<td>Romanshorn, Switzerland</td>
<td>Zurich, Switzerland</td>
<td>Hamburg, Germany</td>
<td>Plzen, Czech Republic</td>
</tr>
<tr>
<td>Saintes, Belgium</td>
<td>Hamburg, Germany</td>
<td>Hanau, Germany</td>
<td>Suzhou, China</td>
</tr>
<tr>
<td>Hamburg, Germany</td>
<td>Bad Urach, Germany</td>
<td>Saintes, Belgium</td>
<td>Guangzhou, China</td>
</tr>
<tr>
<td>Istanbul (Tuzla), Turkey</td>
<td>Romanshorn, Switzerland</td>
<td>Port Elizabeth, South Africa</td>
<td></td>
</tr>
<tr>
<td>Moscow, Russia</td>
<td>Duedingen, Switzerland</td>
<td>Shanghai, China</td>
<td></td>
</tr>
<tr>
<td>Mumbai, India</td>
<td>Cerano, Italy</td>
<td>Wuhan, China</td>
<td></td>
</tr>
<tr>
<td>Pinetown, South Africa</td>
<td>Suzhou, China</td>
<td>Guangzhou, China</td>
<td></td>
</tr>
<tr>
<td>Suzhou, China</td>
<td>Shin-Nanyo, Japan</td>
<td>Tianjin, China</td>
<td></td>
</tr>
<tr>
<td>Seoul, Korea (Republic of)</td>
<td>Hiratsuka, Japan</td>
<td>Xushui, China</td>
<td></td>
</tr>
<tr>
<td>Tokyo, Japan</td>
<td></td>
<td>Gaobeidian, China</td>
<td></td>
</tr>
<tr>
<td>Nagoya, Japan</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**KEY - REGIONS**
- Americas
- Europe
- Asia Pacific
AS THE GLOBAL AUTOMOTIVE INDUSTRY CONTINUES TO EVOLVE, WE CONTINUE TO ENHANCE OUR WORLDWIDE CAPABILITIES TO BETTER SUPPORT OUR CUSTOMERS AND HELP THEM MEET THEIR VEHICLE MATERIAL DESIGN CHALLENGES.
SIKA AUTOMOTIVE is a wholly owned subsidiary of Sika AG, which develops and manufactures specialty chemical products serving construction and industrial markets, including transportation, marine and automotive. In 2013, Sika AG generated annual sales of approximately US $5.68 billion (CHF 5.14 billion), and has over 16,000 employees with operations in more than 80 countries.
SIKA HAS PROVIDED WATERPROOFING SOLUTIONS FOR MORE THAN 100 YEARS

THE FIRST PRODUCT, SIKA®-1, IS STILL ON THE MARKET

EVERY YEAR SIKA SUPPLIES ENOUGH ROOF MEMBRANES TO COVER THE WHOLE OF MANHATTAN

MORE THAN

50%

OF ALL CARS PRODUCED WORLDWIDE USE SIKA PRODUCTS

USING SIKA’S LONG-LASTING WINDOW INSTALLATION SEALANTS, MORE THAN 1 MILLION WINDOW FRAMES ARE SEALED EACH YEAR, HELPING TO SAVE MORE THAN 10,000 TANKER LOADS OF HEATING OIL OVER THEIR COMPLETE LIFETIME

SIKA’S CLEANROOM FLOORING SYSTEMS RELEASE 1,000 TIMES LESS EMISSIONS THAN STANDARD LOW VOC SYSTEMS

WITH

84 AWARDS

IN 16 YEARS, SIKA IS THE COMPANY WITH THE MOST CONCRETE REPAIR PROJECTS AWARDED WORLDWIDE

THANKS TO SIKA’S RANGE OF WATER REDUCERS OVER 25 BILLION LITERS OF WATER ARE SAVED ANNUALLY IN CONCRETE PRODUCTION

IN OVER 80 COUNTRIES, MORE THAN 10,000 ROOFING CONTRACTORS ARE TRAINED AND CERTIFIED BY SIKA

MORE THAN

30%

INTERIOR NOISE REDUCTION IN VEHICLES THANKS TO SIKA’S ACOUSTIC SOLUTIONS
GLOBAL REACH BUT LOCAL PARTNERSHIP

START WITH SIKA THROUGH ANY OF THE CONTACT POINTS BELOW:

EUROPE
Sika Automotive GmbH
Reichsbahnstrasse 99
DE-22525 Hamburg
Germany
Phone +49 40 540 02 0

Sika Automotive AG
Kreuzlingerstrasse 35
CH-8590 Romanshorn
Switzerland
Phone +41 58 436 5801

Sika Automotive Belgium S.A.
Avenue Landas 2
Zoning Industriel
BE-1480 Tubize - Saintes
Belgium
Phone +32 2367 2120

USA
Sika Corporation
30800 Stephenson Hwy.
US-Madison Heights, MI 48071
USA
Phone +1 248-577-0020

BRAZIL
Sika Automotive Ltd.
Rua Romão Puiggari 1025
Vila das Merces
BR-04164-001 São Paulo
Brazil
Phone +55 11 2877 6500

JAPAN
Hayashi-Sika Automotive Ltd.
1-5-15 Mercan Building
Nishiki
JP-491-0005 Naka Nagoya Aichi
Phone +86 52 203 8675

Sika Ltd.
2-15-2 Konan
Intercity Tower B 10th Floor
Minato-ku
JP-108-6110 Shinagawa
Japan
Phone +81 3 6433 2314

KOREA
Sika Korea Ltd.
35-8 nonhyeon-dong
Gangnam-gu
KR-Seoul, Korea (Republic of)
Phone +82 2 6912 1500

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

© 2015 Sika Corporation. All Rights Reserved. Automotive 02.2015

www.sikaautomotive.com