BODY SHOP STRUCTURAL INSERTS
SAFER RIDES; ADDED STRENGTH
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 no matter what form they take.

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 body shop assembly development projects and engaging early in program development, we help customers optimize designs, identify cost savings and reduce complexity.

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Vehicle weight reduction targets are achievable when using SikaReinforcer® or high strength bonding systems in conjunction with mass reduction design; all the while maintaining or enhancing crash safety, durability and vehicle dynamics.

**OUR VERSATILE STRUCTURAL INSERT** technologies reinforce car body structures while delivering a variety of process and performance benefits; the ability to reduce mass AND improve crash performance. Three dimensional parts, CAD designed and CAE optimized, are engineered for the specific vehicle geometries. The final component consists of a SikaStructure® carrier, molded from proprietary Sikamid® and then secured in the vehicle using either a thermal epoxy foam (SikaReinforcer®, two shot molded) or a high-strength structural adhesive (SikaPower®). Together, or separately, these technologies help create lighter weight, performance proven structures, and enable the creation of a new generation of car body concepts; Lighter, Stronger and Safer designs through selective and highly targeted reinforcements.

**START YOUR DEVELOPMENT WITH SIKA**
Sika’s extensive engineering capabilities include CAE simulation, product development and validation. The vast global network of technology centers and manufacturing footprint provide support to the broad portfolio of proven products. The combination ensures Sika will deliver the right solutions for our customers worldwide.

For each steel design, a SikaReinforcer® solution is an alternative for a stronger, safer, greener solution.

By starting early in the design process, designs can be further optimized for greater cost savings and significant weight reduction over traditional methods.

**BENEFITS**
- Design flexibility even in complex design environments
- Implementable without significant modification of the engineering design
- Easy assembly process in car body
- Shorter design and development timeline than steel solutions
- Can be added at any point during the body development process

**50,000 TONS OF STEEL SAVED ANNUALLY WORLDWIDE**
Vehicle weight reduction targets are achievable when using SikaReinforcer® or high strength bonding systems in conjunction with mass reduction design; all the while maintaining or enhancing crash safety, durability and vehicle dynamics.
ACHIEVE SAFETY PERFORMANCE
Reduce Deformations with SikaReinforcer®

SAFER RIDES: MEET EVER INCREASING SAFETY REQUIREMENTS WITH SikaReinforcer® AND HIGH STRENGTH BONDING (HSB)
Conventional solutions to reduce collapse and deformation of sections in car body structures utilize metal reinforcements, which can increase material thickness, weight and processing complexities. Alternatively high-strength metal can be used, but it adds cost. Sika’s solutions provide methods to mitigate these challenges.

IT IS NOT SAFETY FIRST, IT IS SAFETY ALWAYS: MEETING ALL OF YOUR REQUIREMENTS
A wide range of highly engineered structural solutions including SikaReinforcer® foam and SikaReinforcer® High Strength Bonding (HSB) can be integrated during the design phase of your project for maximum benefit in vehicle assembly and performance.

SikaReinforcer® structural inserts help efficiently distribute the load of crash stresses over a larger geometry of substrates and ensure high levels of crash performance without adding excessive weight, cost or complexity. This allows designers and engineers to imagine new design and assembly possibilities and push the limitations of conventional vehicle designs by utilizing ever-thinner sheet metal or reducing car body structure sections without compromising crash performance.

APPLICATION
- A-, B-, C- and D-pillars (upper and lower at nodes positions)
- Roof frames
- Rocker, sill

BENEFITS
- Limits collapse of body sections
- Reduces intrusion in passenger compartment
- Lightweight solution versus heavier metal solution

SIKA REINFORCER SAFETY PRODUCT RANGE

SIKA OFFERS TAILOR MADE SOLUTIONS TO MULTIPLE BODY SHOP ASSEMBLY CHALLENGES
For each type of requirement in crash, local stiffness, NVH and fatigue, Sika’s broad reinforcer product range allows for the best design and technical solution; always adapted to the car body design, the planned assembly process and the development timeline. Our engineers propose the most optimized solution for the best results.

KEY PERFORMANCE DATA - NVH
In pursuit of lightweighting goals, automakers increasingly turn to thin UHSS (ultra high strength steel). However, this results in increased noise, vibration and harshness in the vehicle that need to be compensated with reinforcements
- Foamed reinforcers placed at structural nodes can increase torsional and bending frequency by 3Hz
- Increase torsional stiffness by up to 10%
- Torsion stiffness can be increased by +2000 Nm/rad
- Factor 2-3 higher efficiency for each mass added compared to stiffness

KEY CRASH PERFORMANCE DATA - DROP TOWER TESTING
SikaReinforcer® technology contributes to:
- Suppression of buckling
- Direct load transfer inside section of car body
- Reinforcement of geometrically weak and vulnerable areas

DEFORMATION PERFORMANCE IN DROP TOWER TESTING
Comparative crash behavior of 3 reinforcement solutions in drop tower test on a hat profile:
- HSB can withstand the highest load and reduce deformation in car body section
NEW TECHNOLOGY: HIGH STRENGTH BONDING SikaReinforcer® HSB is an exciting new technology which combines the energy absorption of a complex highly engineered injection molded SikaStructure®, with the strength of structural adhesives, SikaPower®. It is designed for combined assembly into the vehicle body structure and therefore creates the highest crash performance at the lowest weight possible.

APPLICATION OVERVIEW
With documented performance in crash load tests, SikaReinforcer® HSB technology offers exceptional possibilities to reinforce sections of car bodies, even in space constrained design architectures. The reliable adhesion and high strength crash performance of SikaPower® adhesives results in a gradual distribution of the kinetic forces throughout the specific area of impact and surrounding bonded material. The reinforced section limits intrusion into the occupant safety cell of the vehicle and limits local deformations such as buckling or tension that exceed the elastic limits of the surrounding metal.

SikaReinforcer® HSB is characterized by its exceptional robustness in a crash event leading to plastic deformation in terms of performance and the technology exhibits excellent aging stability over the service life of the vehicle. This technology has been developed and tested to fulfill the most exigent crash requirements, offering designers a high potential of advanced lightweight design possibilities while maintaining or enhancing crash performance.

ASSEMBLY PROCESS FOR HSB APPLICATION

STEP 1 Prepare cavity.
STEP 2 Predetermined volumetric beads of SikaPower® are applied.
STEP 3 SikaStructure® (engineered carrier) element inserted; adhesive beads compressed.
STEP 4 Cover plate assembled. Following e-coat dip assembly cures in existing e-coat Oven cycle.

BENEFITS
- Highest performance at lowest weight
- Weight reduction from 20% to 40% when compared to equivalent performing metal solution
- Flexible design possibilities – can be adapted to any complex metal sheet design (even in space constrained cavities)
- Easy implementation for derivative models, such as hybrid or electric versions

NEW DEVELOPMENTS
continue to push performance to higher levels. As a leader in reinforcement applications and technologies we continue to be an innovation leader in future assembly techniques and boundaries of crash performance. Sika SmartFlow technology allows for automated injection of measured amounts of adhesive; exactly where it is needed for maximum performance.

APPLICATION OVERVIEW OF SMARTFLOW HSB
Instead of applying the structural adhesive on the plastic reinforcement front, as in HSB concept, engineered cavities receive the reinforcer part. The section is then closed and the structural adhesive is injected through a portal after assembly. The injection canals are not necessarily sealed (gap up to approx. 1mm).

Ideal applications include reinforcement of locally extruded aluminum profiles, or steel rolled sections where the HSB process would be impossible to use.

ASSEMBLY PROCESS FOR SMARTFLOW HSB APPLICATION

STEP 1 Prepare cavity.
STEP 2 SikaStructure® element (Engineered composite carrier) inserted into cavity.
STEP 3 Cover placed. Assembly process completed. Injection nozzle placed to access part.
STEP 4 SikaPower® adhesive dispensed in calculated volume directed by pre-molded guides for specific coverage. Adhesive cures in E-Coat oven.
PRODUCT OVERVIEW
Crash Safety, NVH and Local Stiffness Solutions

SikaReinforcer® HSB (CRASH):
HIGH STRENGTH BONDING
In highly loaded crash applications, HSB technology is a method of choice, and particularly suited to the reinforcement of long, tight geometry sections of the car body. After crash, deformation of the specific section exhibits smooth, linear dispersion of energies; without rupture of, or buckling of the surrounding sheet metal. e.g. applications in the roof frame, A-B-C-D-pillars for side crash protection, small overlap, or roof crash.

Sika SMARTFLOW HSB
In case of application in closed sections (e.g. extruded aluminum profiles, cold rolled steel) our newly developed Smartflow solutions allows placement of a highly engineered carrier in the closed section and the SikaPower® material is injected through a portal after assembly.

SikaReinforcer® (CRASH):
SikaReinforcer® applications are ideally suited for side, front or rear crash and well adapted for crash applications where the dominant energy load is compression. Typical application is the bridging of a gap between two metal sheets, and in filling small cavities loaded for compression. e.g. Reinforcer in A, B, C, D-pillars

SikaReinforcer® (REPAIR):
Our OEM solutions follow vehicles to the field for use in repair. Packaged for aftermarket use, two-component structural adhesive SikaReinforcer®-900 cartridge can be used in combination with SikaStructure® inserts, as an ideal solution for repair in car body sections.

SikaReinforcer® (NVH enhancement):
Dynamic bending or torsional stiffness can be improved on either a local or global level with the insertion of structural inserts in strategic nodes. e.g. A, B, C-pillar lower, A-pillar to roof frame, C-pillar to roof frame, windshield’s carrier, sill

SikaReinforcer® (Local stiffness improvement): Local static stiffness can be improved by stiffening the sections of the car body with structural inserts. The technology provides simple alternatives to complex steel solutions (stamping, welding, bonding). SikaReinforcer® parts are more simple to integrate in the assembly process and weigh less than steel solutions. e.g. roof frame, windshield’s carrier, sill

SikaReinforcer® (Panel stiffening)
Weight saving efforts in design often involve reduced panel thicknesses. These actions can lead to localized external panel weaknesses that can be compensated easily through the addition of stiffener products. SikaReinforcer tapes and pads, or bulk applied reinforcer technologies are ideally suited for remediation of these challenges.

SikaReinforcer® HSB (High Strength Bonding) for high loaded crash
SikaReinforcer® for crash
SikaReinforcer® pads for local stiffness
SikaReinforcer® for NVH enhancement

PRODUCT KEY
For large cavity openings such as body pillars or rocker areas, reduction of mass is easily achieved with highly engineered, custom molded parts to reinforce the vehicle body structure. As traditional mass comes out, lighter weight solutions go in.
LIGHTWEIGHTING SOLUTIONS
Reducing Weight with SikaReinforcer® Contributes to Sustainability

LIGHTER VEHICLES START WITH SIKA
With consumers and government regulators both demanding greater fuel economy, reducing vehicle weight is a key goal in new vehicle development. While there are many options throughout the vehicle to meet new guidelines, lightweight materials offer excellent solutions. SikaReinforcer® solutions offer a potential of 40 kg weight reduction compared to steel equivalent performing solutions.

KEY PERFORMANCE DATA - SikaReinforcer® AND Sika HSB TECHNOLOGY
Sika offers multiple reinforcement products in our portfolio, most are adapted to specific customer requirements based on design need and performance requirements.

<table>
<thead>
<tr>
<th>SikaReinforcer®-94x family</th>
<th>SikaReinforcer®-95x family</th>
<th>SikaPower®-96x family</th>
<th>SikaReinforcer®-900 R (2C Repair Adhesive)</th>
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</thead>
<tbody>
<tr>
<td>Curing Window</td>
<td>140 – 200 ºC</td>
<td>150 – 200 ºC</td>
<td>20 – 40 ºC (RT)</td>
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<tr>
<td>Expansion</td>
<td>150 – 250 %</td>
<td>250 – 300 %</td>
<td>none</td>
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<tr>
<td>Tensile Strength</td>
<td>20 – 30 MPa</td>
<td>2 – 10 MPa</td>
<td>16 MPa</td>
</tr>
<tr>
<td>Young Modulus</td>
<td>400 – 600 MPa</td>
<td>1500 – 2000 MPa</td>
<td>2000 MPa</td>
</tr>
</tbody>
</table>

PANEL STIFFENING
Reduce Panel Thickness; Strengthen Locally with SikaReinforcer®
Pads and Bulk Applications

PANEL STIFFENING:
- Weight reduction as a megatrend applies to all parts and materials in the automotive industry.
- Weight saving efforts can be applied on external panel sheet metal thicknesses, but there is often a negative effect. Visible deformations of surfaces can limit the benefits. With the application of stiffening pads or bulk applied stiffening materials, engineers and OEMs can meet performance targets while decreasing panel thicknesses through localized reinforcement only where it is required, with products engineered to eliminate panel distortion possibilities.

SikaReinforcer® stiffener pads and bulk formulations are designed to improve the stiffness required for panels in steel or aluminum protected with oils. To meet a wide range of specifications, various expansion ranges are available to support weight saving targets on the panels. Our diverse reinforcer selection also now includes a hybrid pad version which allows for reinforcement and damping in a single product.

The patches can be designed as a stiffening part produced with an extrusion process including a fiberglass textile top layer. The part will act as a hybrid sandwich with the panel to stiffen. Sika has proven expertise in the automated application of stiffener pads on assembly lines. Also available are pumpable bulk materials that can be robotically applied to targeted surfaces. All SikaReinforcer® bulk materials contain glass fibers, which serve to further reinforce the applied surface.

- Improves local stiffness
- Excellent adhesion on steel/aluminum
- Avoids read-through on external panels
- Long shelf life
- Potential of automatic application
- Can be tailored to any design

<table>
<thead>
<tr>
<th>SikaReinforcer®-540</th>
<th>SikaReinforcer®-200/201</th>
<th>SikaReinforcer®-660</th>
<th>SikaReinforcer®-670</th>
<th>SikaReinforcer®-671</th>
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<tbody>
<tr>
<td>Performance</td>
<td>damper/stiffener</td>
<td>stiffener</td>
<td>stiffener</td>
<td>stiffener</td>
</tr>
<tr>
<td>Type of material</td>
<td>parts</td>
<td>bulk</td>
<td>parts</td>
<td>parts</td>
</tr>
<tr>
<td>Polymer base</td>
<td>reactive butyl</td>
<td>epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>1.5</td>
<td>1.5 – 1.6</td>
<td>1.4 – 1.5</td>
<td>1.3</td>
</tr>
<tr>
<td>Expansion rate</td>
<td>50 – 70 %</td>
<td>0 %</td>
<td>0 %</td>
<td>0 %</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>2mm = 45 N</td>
<td>2mm = 65 N</td>
<td>2mm = 70 N</td>
<td>2mm = 50 N</td>
</tr>
<tr>
<td>Peak=135 N</td>
<td>Peak=125 N</td>
<td>Peak=245 N</td>
<td>Peak=200 N*</td>
<td>Peak=220 N*</td>
</tr>
<tr>
<td>Application</td>
<td>body shop</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bake conditions</td>
<td>30 min @ 160 ºC and 15 min @ 180 ºC</td>
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<td></td>
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</table>

*Different glass cloths/materials are available resulting in different values.
PROCESS ALTERNATIVES WITH STRUCTURAL TAPES
Bonding and Gap Filling with SikaReinforcer®

VERSATILE SIKAREINFORCER® EXTRUDED STRUCTURAL TAPES are suited for a variety of potential applications. Structural tapes can be produced in various lengths and widths, and the range of potential epoxy-based formulations with different expansion ranges allows service to a broad selection of designs. Structural tapes have serial tooling which allows for relatively short lead times, thus the materials can be used to solve last minute design challenges. Self adhesive tapes are placed manually into the cavity or seam of the body structure and are activated and cured during the standard e-coat oven process.

BONDING OF TWO METAL SHEETS
Designed to allow bonding of two different sheet metals.

CAP FILLING
Many body-in-white designs need connections between critical sheet metal nodes to reach high levels of performance in NVH or crash. Gap filling solutions in hidden areas, or areas without welding tool access, can be readily solved by using gap filling expanding structural foam. As an alternative to injection molded structural foam solutions, a simple self adhesive part can achieve these targets.

BORING ALTERNATIVES WITH STRUCTURAL TAPES
Bonding and Gap Filling with SikaReinforcer®

PRODUCT SPECIFICATION

During car body developments, designers often face stiffness or crash issues due to missing interconnections between sheet metal panels where standard joining processes are difficult to implement. Structural tapes solve the issue by behaving like a structural adhesive in hidden areas inaccessible to tool access. In standard configurations a release film is placed on the upper side of the product to allow for handling purposes. If necessary the film can be removed.

SikaReinforcer®-600
Low expanding, epoxy based structural tape material (self adhesive) with high mechanical properties. The material is designed to cure between two sheet metals which are in contact with the tape before curing.

SikaReinforcer®-602
High expanding structural tape material (self adhesive) with high mechanical properties. Gap filling, expanding structural tapes can join two different sheet metal with high gaps in hidden areas. With expansion levels between 160 - 400 %. Our high expanding structural tape portfolio can cover many applications.

<table>
<thead>
<tr>
<th></th>
<th>SikaReinforcer®-600</th>
<th>SikaReinforcer®-602</th>
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</thead>
<tbody>
<tr>
<td>Shelf Life</td>
<td>6 months</td>
<td>6 months</td>
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<tr>
<td>Curing Window</td>
<td>150 – 200 °C</td>
<td>170 – 200 °C</td>
</tr>
<tr>
<td>Expansion Rate</td>
<td>40 % (no gap filling)</td>
<td>400 % (gap filling)</td>
</tr>
<tr>
<td>Young Modulus</td>
<td>1500 MPa</td>
<td>300 MPa</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>18 MPa</td>
<td>4 MPa</td>
</tr>
<tr>
<td>Weldable</td>
<td>yes</td>
<td>no</td>
</tr>
</tbody>
</table>

BENEFITS
- Simple assembly process
- Simplified joining method
- Low/no tooling cost solution
- Flexible design possibilities

1. C pillar junction with frame with extruded reinforcer tape
2. Replacement of structural adhesive with extruded structural tapes
INNOVATION, IT STARTS WITH PASSION

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

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 steels.

STRONGER AND SAFER

We were the pioneer in vehicle exterior parts bonding with our Sikaflex® + Booster and SikaForce® products and our 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 establish water-based pre-treatments and polyurethane hotmelts with low monomeric isocyanate content and reactive polyolefin hotmelts free of classification to the automotive interior market – 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 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. Anticipating megatrends we also offer a full range of solutions for assembly of e-mobility components and vehicles.

START WITH SIKA

MORE THAN

30 MILLION VEHICLES

MORE THAN

50% OF ALL VEHICLES

30% WEIGHT REDUCTION

USE SIKA PRODUCTS AND TECHNOLOGIES

25 MILLION PLUS

VEHICLES MADE STRONGER AND SAFER EACH YEAR WITH OUR BODY SHOP ADHESIVES

MORE THAN

300,000 Liters

OF VODS WERE REDUCED THROUGH THE USE OF SIKA’S PRIMERLESS TO GLASS WATER-BASED PRE-TREATMENT SYSTEMS

MORE THAN

70 MILLION

CAR WINDOWS ARE BONDED DURING ASSEMBLY USING SIKAFLLEX®

SIKA HAS

20,000+ EMPLOYEES IN OVER 100 COUNTRIES

MORE THAN

700 MILLION

PARTS BASED ON OUR SIKABAFFLE®, SIKA DAMP® AND SIKAREINFORCER® TECHNOLOGIES ARE SUPPLIED ANNUALLY TO THE GLOBAL AUTOMOTIVE INDUSTRY

MORE THAN

30% INTERIOR NOISE REDUCTION IN VEHICLES THANKS TO SIKA’S ACOUSTIC SOLUTIONS

MORE THAN

25 MILLION PLUS

VEHICLES MADE STRONGER AND SAFER EACH YEAR WITH OUR BODY SHOP ADHESIVES

MORE THAN

50% OF ALL VEHICLES

USE SIKA PRODUCTS AND TECHNOLOGIES

30% 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

MORE THAN

30%

INTERIOR NOISE REDUCTION IN VEHICLES THANKS TO SIKA’S ACOUSTIC SOLUTIONS

MORE THAN

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MORE THAN

30% INTERIOR NOISE REDUCTION IN VEHICLES THANKS TO SIKA’S ACOUSTIC SOLUTIONS
GLOBAL REACH BUT LOCAL PARTNERSHIP

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

www.sikaautomotive.com