



SIKA INDUSTRY

Karel Formanek
Regional Business Development Manager EMEA EUE

SIKA AT A GLANCE

- Global specialty chemicals company
- Supplying construction markets and the manufacturing industry
- Headquarters in Baar, Switzerland
- Founded in 1910
- Over 17,000 employees
- Subsidiaries in 93 countries



TARGET MARKETS



Concrete



Waterproofing



Roofing



Flooring



Sealing & Bonding



Refurbishment



Industry

CORE COMPETENCIES

Sika development and technical service teams draw from a broad portfolio of technologies in order to offer the most innovative solutions within each competency.



INDUSTRY MAIN APPLICATIONS



Automotive
OEM and OES
(Original Equipment
Manufacturer and Supplier)



Automotive
Aftermarket



Transportation &
Marine



Tooling & composites



Facade and fenestration
manufacture



Appliances and
industrial components

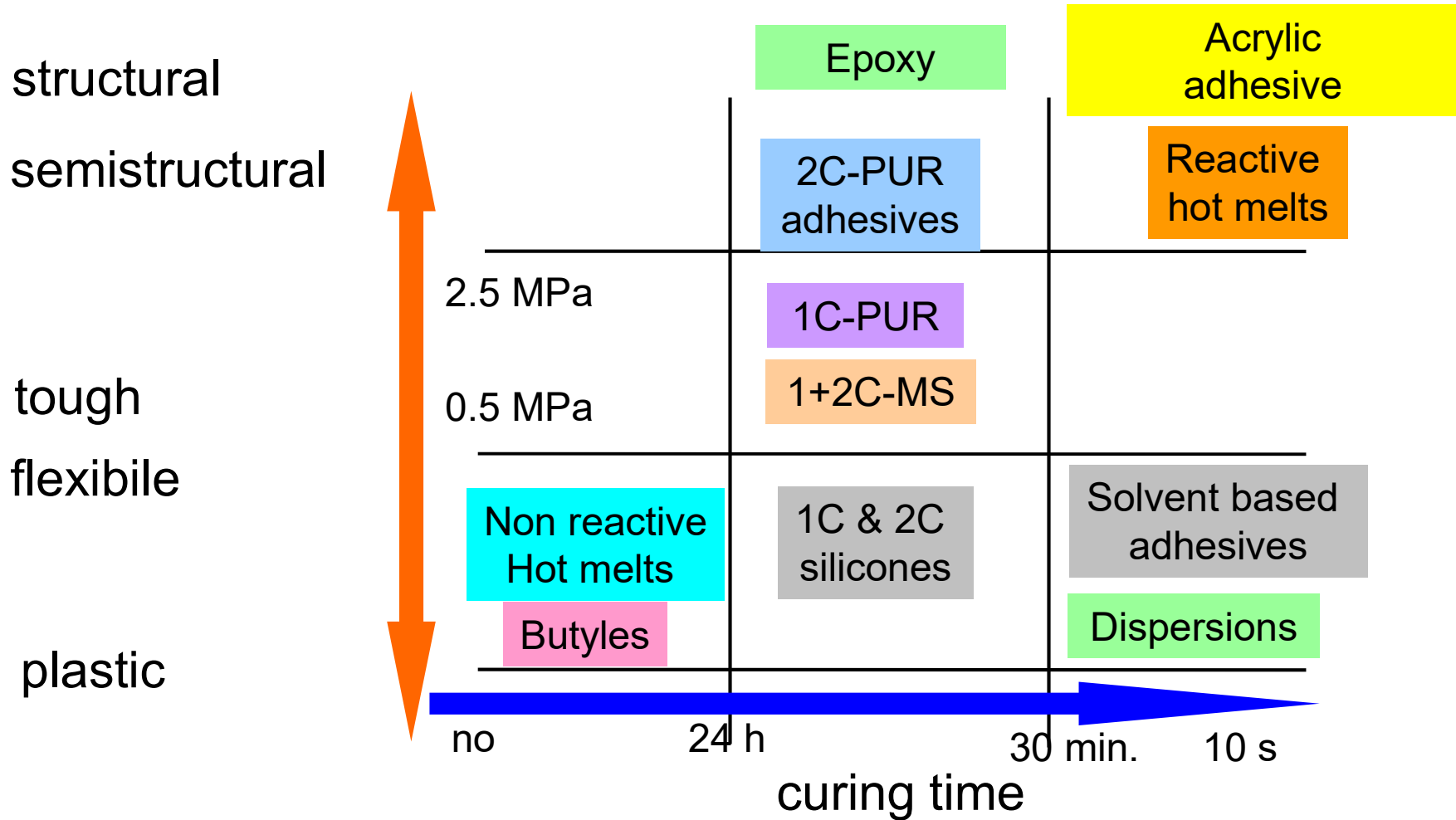


Industrial lamination



Renewable energies

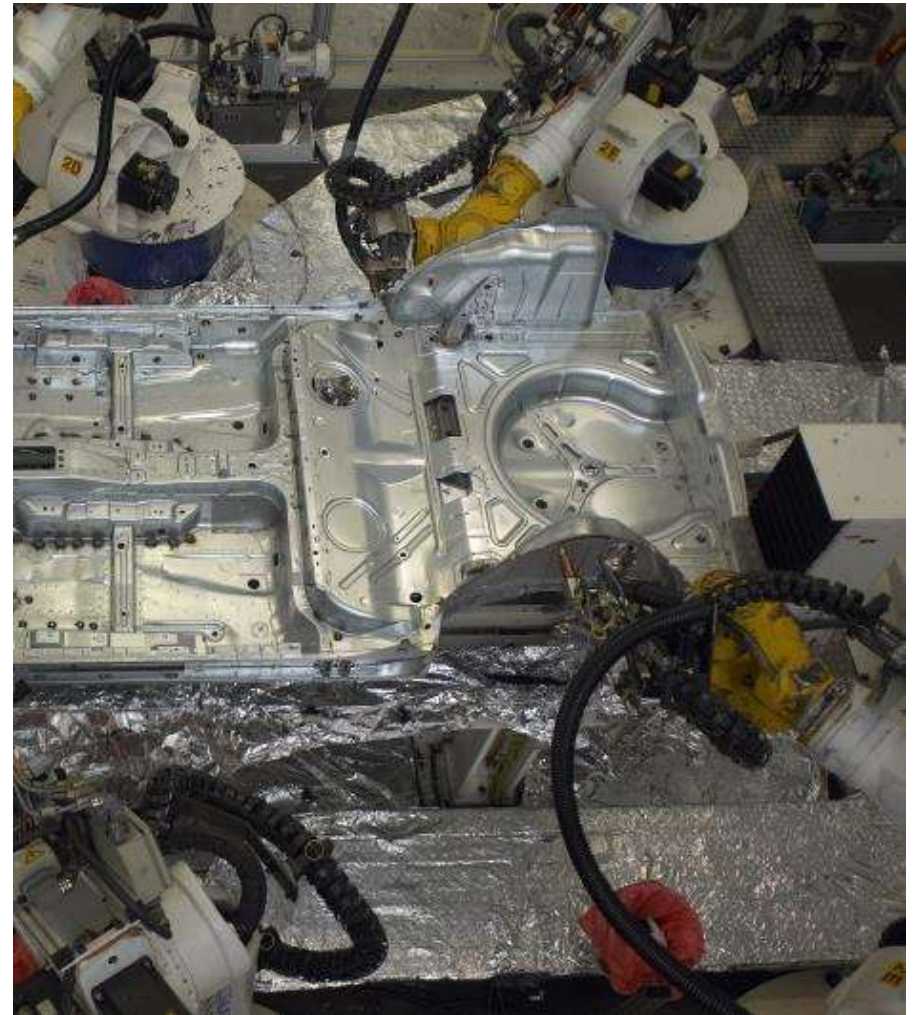
INDUSTRY ADHESIVE TECHNOLOGIES



INDUSTRY

OUR MOST IMPORTANT BRANDS

- Sikaflex®
- SikaTack®
- SikaForce®
- Sikasil®
- SikaLastomer®
- SikaFast®
- SikaPower®
- SikaSeal®
- SikaMelt®
- SikaSense®
- SikaTherm®
- SikaBaffle®
- SikaDamp®
- SikaReinforcer®
- Sikafloor®
- SikaGard®
- Sikadur®
- Sika® Permacor®
- Biresin®
- SikaBlock
- SikaGlaze®
- SikaMembran®



AUTOMOTIVE

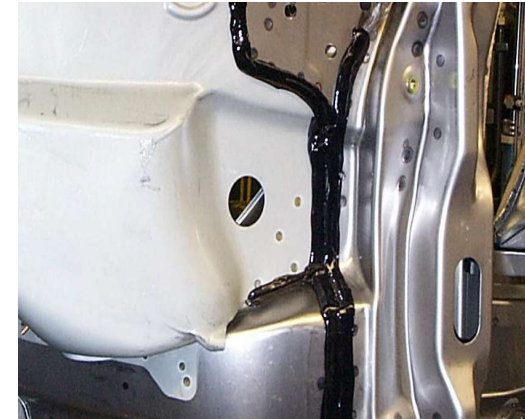
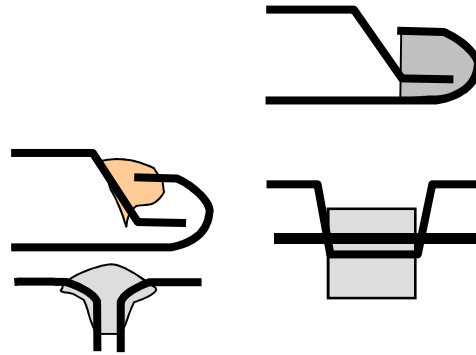
Sika is supplier and development partner to the automotive industry. We support our customers in the optimization of the production process to achieve cost and quality improvements.

Customer group Automotive consists of:
OEM (Original Equipment Manufacturer) and
OES (Original Equipment Supplier)

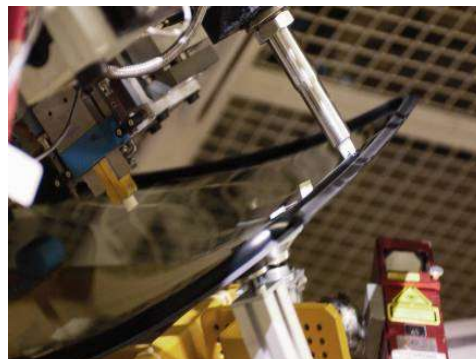


AUTOMOTIVE OEM Car body Assembly

Bonding as spot welding alternation, anti flutter solutions, solutions with semi-elastic structural sealants and adhesive epoxy-polyuretan based SikaPower®



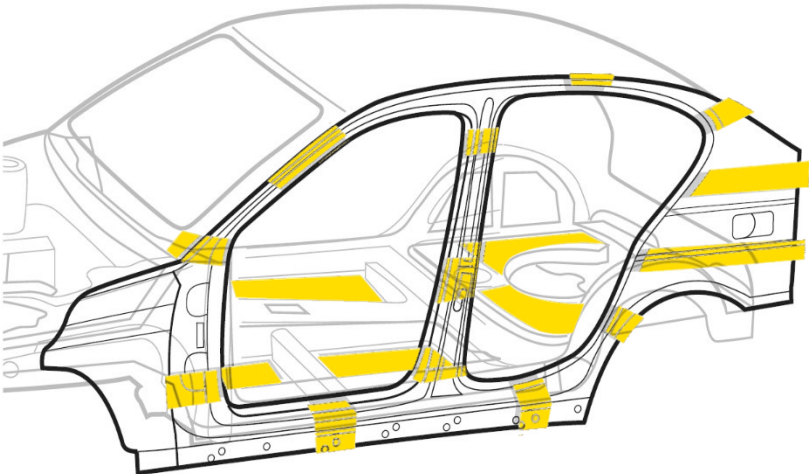
- Bonding of windshields, sunroof panels, dashboard panels with Sikaflex®



AUTOMOTIVE OEM Car body Assembly

Car body structure improving solutions

SikaSeal®
heat expanding butyl sealants



SikaBaffle®
heat expanding sound deadening moulds, gap sealing



SikaDamp®
self sticking vibration damping mats



SikaBarrier®
vibration deadening multilayer foils



SikaReinforcer®
heat expanding structure reinforcing moulds



AUTOMOTIVE OES Car part production

- Head lamps - PC glass bonding on fast automatised assembly line with immediate leakage test
 - 1C PUR warm melt technology Sikaflex®
 - 2 C silikon technology Sikasil® AS



AUTOMOTIVE OES Car part production

- Interior parts production – lamination technologies
 - 1c & 2C hot melt technology SikaMelt®
 - 1c dispersions PSA adhesives technology SikaSense®, SikaTerm®



AUTOMOTIVE AFTERMARKET

Sika's Automotive Aftermarket products provide best performance and easy application. Developed for professional users, our product range follows the highest safety standards and offers OEM-approved solutions.

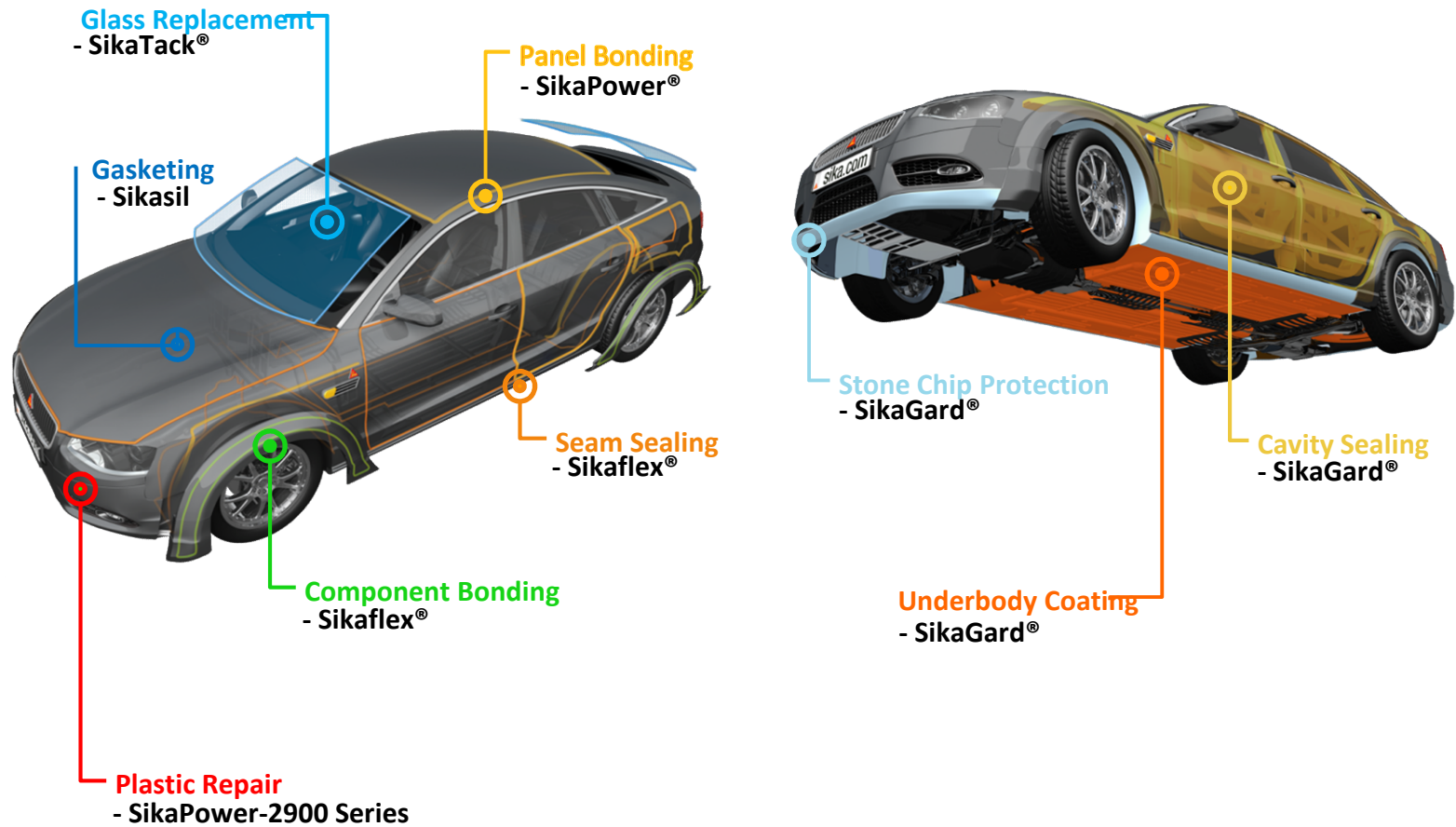
Automotive Aftermarket consists of:
Automotive Glass Replacement (AGR) and
Car Body Repair (CBR)



AUTOMOTIVE AFTERMARKET

Sika is among the top suppliers and has become a development partner of the automotive OEM industry.

The knowledge we have acquired in this partnership also flows into the products we offer for the automotive aftermarket.



AUTOMOTIVE AFTERMARKET



Windshield Bonding



**Panel Replacement
Car body sealing
Car body protection**

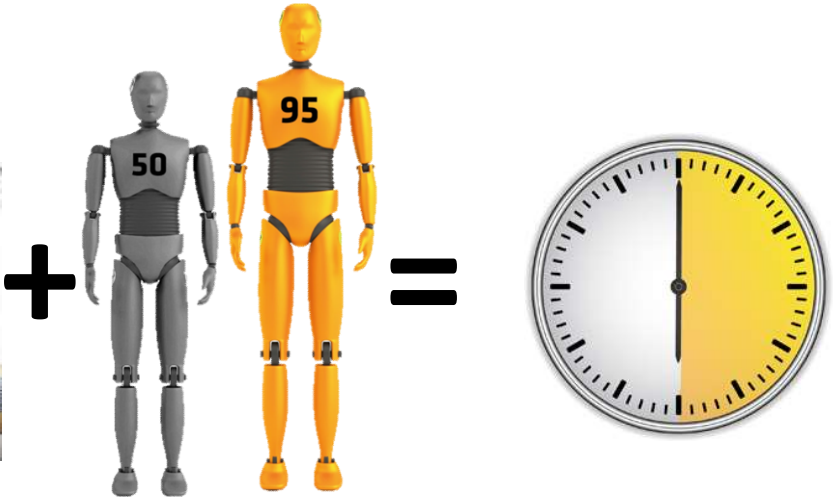


Plastic Repair



AUTOMOTIVE AFTERMARKET MARKET LEADERSHIP IN GLASS REPLACEMENT

- Over 30% market share
- New portfolio of innovation



TRANSPORTATION AND SEGMENTS

Sika is a partner to numerous commercial vehicle producers around the world and active in many market fields



Bus

- Minibus
- City bus
- Inter city
- Trolley

Truck

- Cabins

Rail

- Tram
- Underground
- High speed
- EMU

SVI

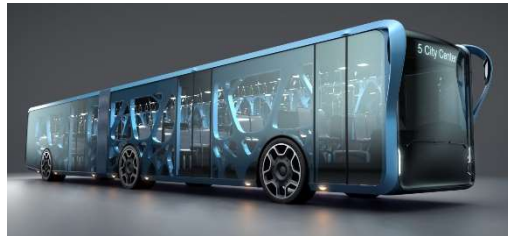
- Truck Trailer
- Fire engine
- Motorhome/Caravan
- Agricultural vehicle
- Ambulance
- Etc.

TRENDS IN TRANSPORTATION

REDUCTION OF EMISSIONS CO2, NOISE LEVEL, FUEL CONSUMPTION

➔ Design & Over sized & Light weight

Sikaflex®, SikaForce® technologies



➔ crash resistance

Sikaflex®

SikaPower®



➔ Stronger EH&S demands



➔ Harsher fire regulations

Sikaflex® FR

Sikasil® Firesil



REACH proces, labour safety,
hygiene, raw recourses

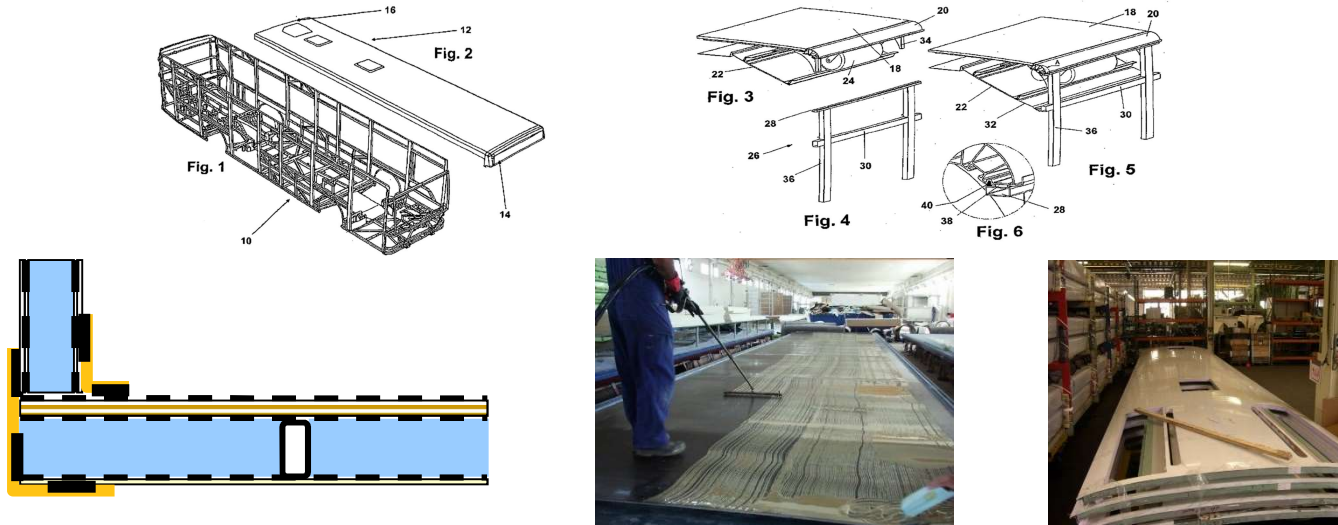
➔ Process optimizations

accelerated Sikaflex® Booster



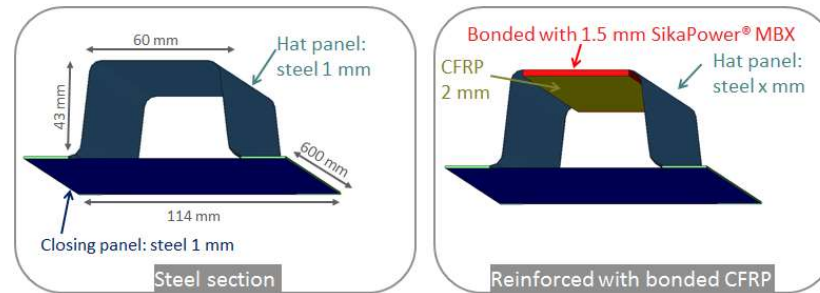
TRENDS IN TRANSPORTATION 1

- Use of sandwich panels for roof and floors to reduce weight and implementation of modular building



SikaForce® technology

- Implementation of light weight process materials (sealants and adhesives)



Sikaflex® LV & UHM SikaForce® SikaPower® technologies

TRENDS IN TRANSPORTATION 1

- Composites (RTM, SMC) and plastics as structural moduls



2C PUR SikaForce[®] technology

- Focus on protective processes as e-coating, powder coating

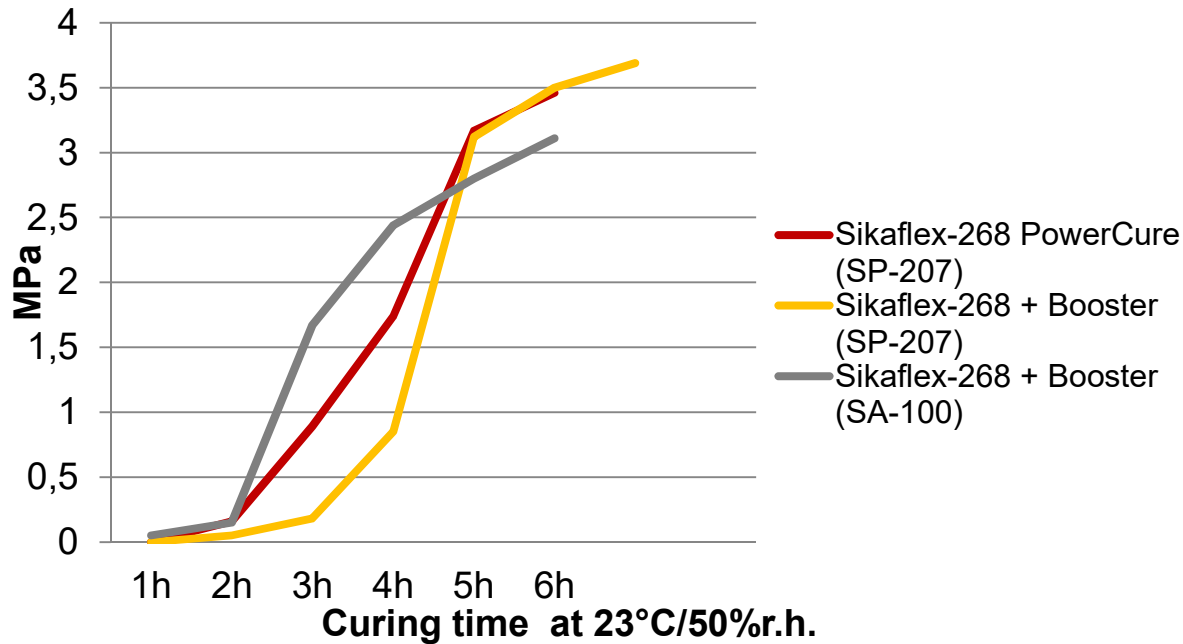
- accelerated curing proces,
- overpaintability,
- temperature & chemical resisitivity of sealants and adhesives

SikaPower[®]



TRENDS IN TRANSPORTATION 1

- Increased process speed
 - accelerated sealing and bonding systems (Booster, PowerCure, 2K systems)



TRANSPORTATION

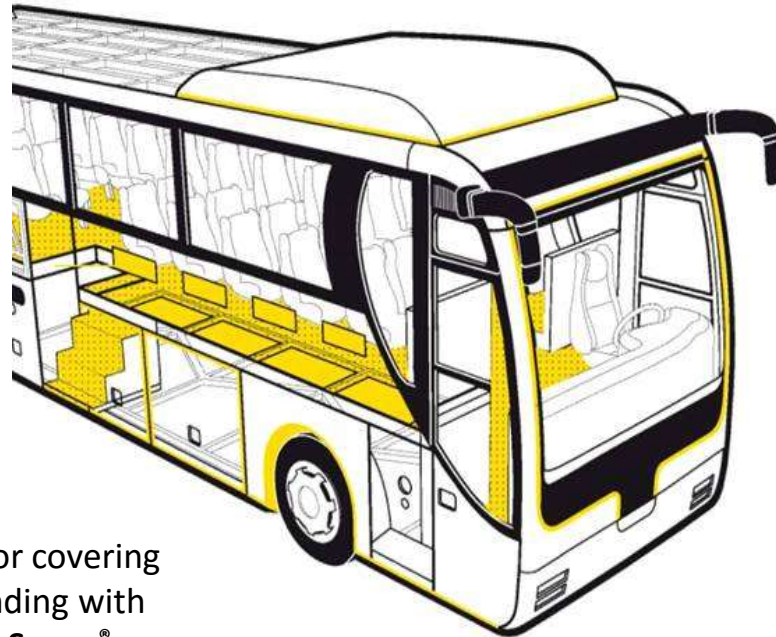
Based on a range of leading technologies, Sika offers customized solutions for commercial manufacturers.

Just a few of the many application possibilities:

Acoustic damping with **SikaDamp®** and **SikaBaffle®**

Floor covering bonding with **SikaSense®**

Underbody coating with **SikaGard®**



Direct glazing, bonding and sealing with **Sikaflex®**

Fast assembly bonding with **SikaForce®**, **SikaFast®** and **Sikaflex® Booster**

TRANSPORTATION

INNOVATION LEADING RAIL TO THE NEXT GENERATION



Exterior Seam Sealing
Assembly Bonding
▪ Sikaflex®-558

Complies with toughest
EH&S demands



Interior Sealing
▪ Sikaflex®-221 FR

Meets the most challenging
fire standard



Direct Glazing

- Sikaflex®-268
- Sikaflex®-268 Booster
- Sikaflex®-268 PowerCure

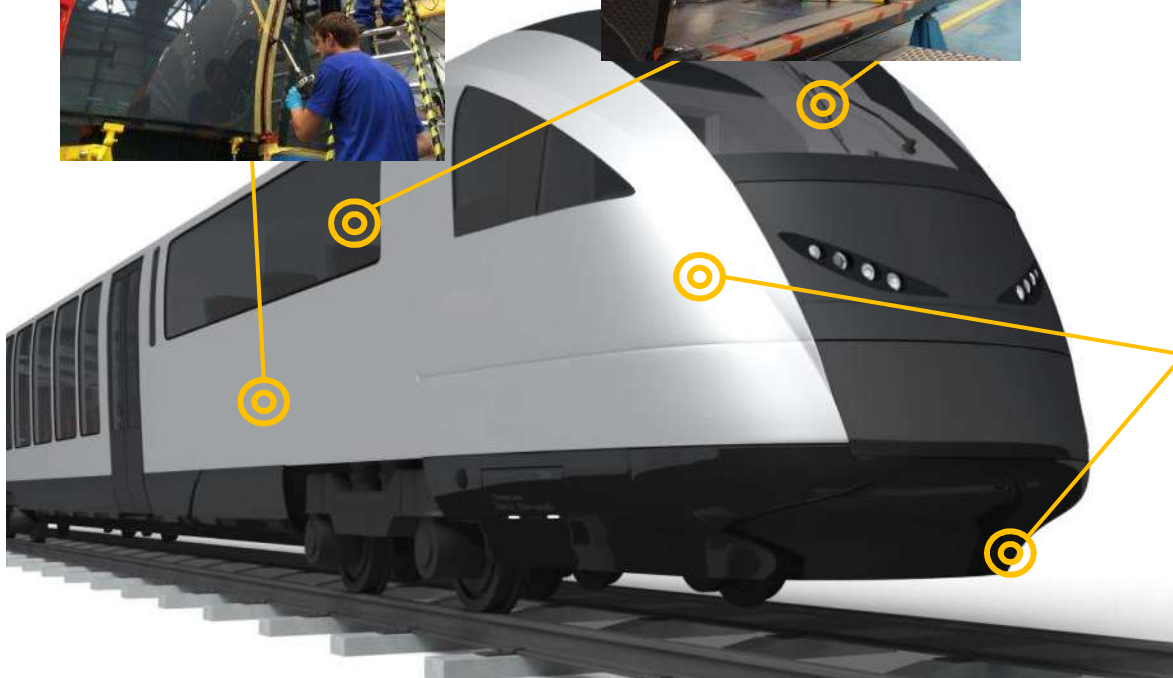
Adopts to every production need and
offers gold level acid resistance



Acoustic Solutions
Underbody Protection

- SikaGard®-6682

Best in class stone chip protection
and acoustic properties with
fantastic application behavior



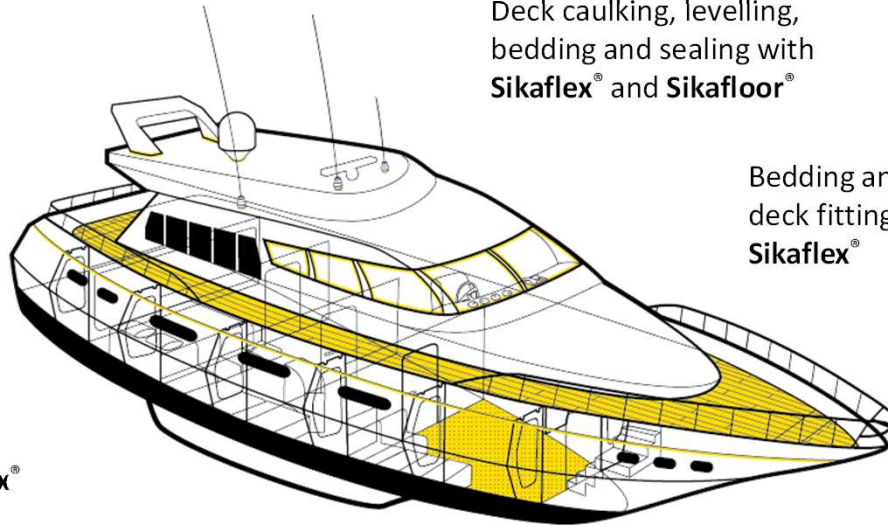
MARINE



Deck caulking, levelling,
bedding and sealing with
Sikaflex® and **Sikafloor®**

Bedding and sealing of
deck fittings with
Sikaflex®

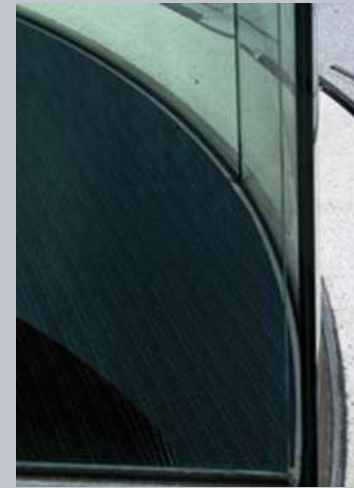
Direct glazing,
bonding and
sealing with
Sikasil® and **Sikaflex®**



Acoustic flooring with
Sikafloor® Marine systems

BUILDING TRUST





FAÇADES - FENESTRATION - INSULATED GLASS

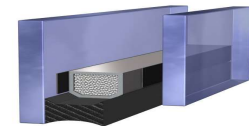
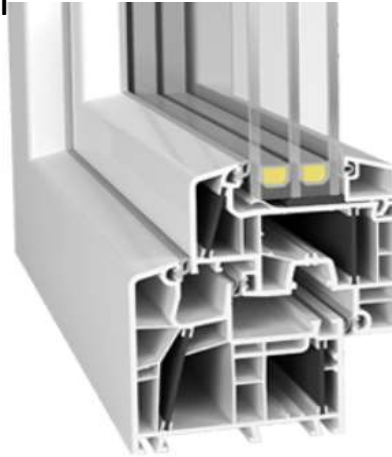
FENESTRATION & INSULATED GLASSES

- Burglary proved windows
- Maintenance free windows
- Over sized windows
- Weight reduction – less steel reinforcer
- Triple glass and frame stability
- Automatization in production
- New, modern design

- 2C silicones Sikasil® WT 485
- 2C MMA SikaFast® -5xxx serie

Insulated glass production
Inert gas tight secondary
sealing

● 2 C Sikasil® IG 25 HM+



FACADES



GLASS FACADES

Structural glazing
Insulating glass
Weather proofing
Fire sealing



OPAQUE FACADES

Panel bonding &
reinforcing
Noise reduction



WATER & VAPOR PROOFING

Membrane Systems



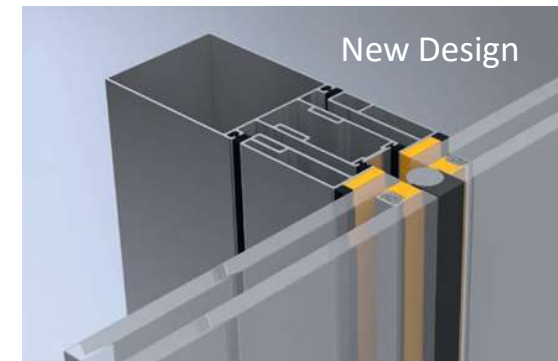
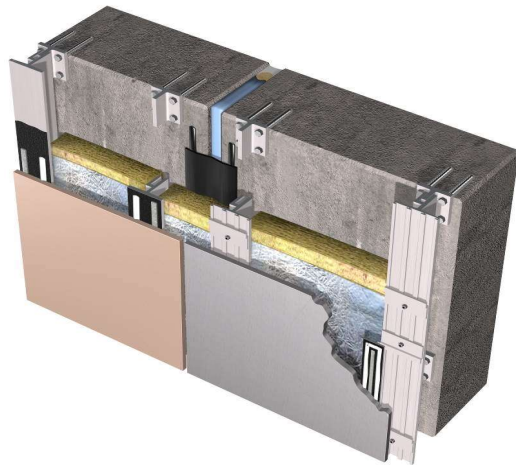
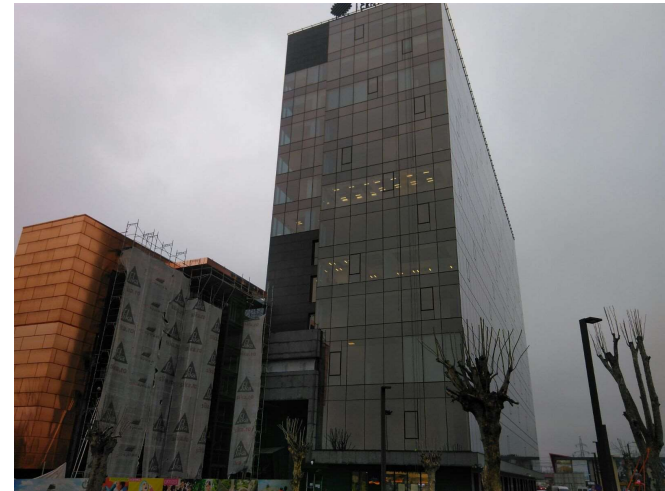
GLASS BALUSTRADES

Glass wall grouting /bonding



FACADES

- Invisible bonding system for ventilated facades
- No tension into the glass
- No holes into the glass
- Great freedom design
- **EOTA certified structural silicone adhesives**



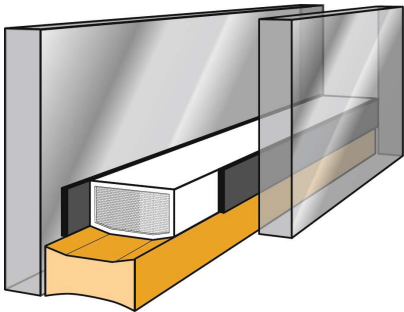
- **1c a 2c silicones Sikasil® -SG,-WS,**
- **1 c PUR SikaTack® Panel System**
- **water & vapour tight SikaMembrane®**

FACEDES - LATEST SIKA DIRECTIONS

ENERGY EFFICIENCY

Improved argon retention
 Better U_g values
 Long IG service life

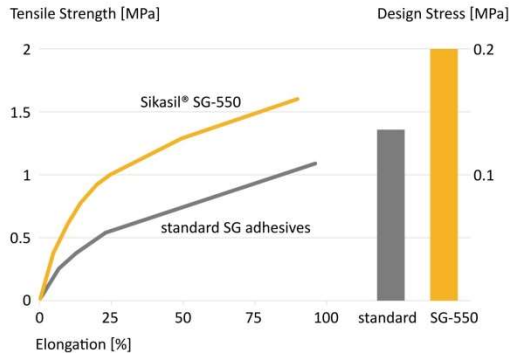
HIGH-MODULUS SILICONES



LEAN STRUCTURE

Improved joint performance
 Larger glass dimensions
 Slimmer frames

HIGH-STRENGTH SILICONES



ARCHITECTURAL DEMANDS

Laminar bonding and decorative coating
 Design opportunities

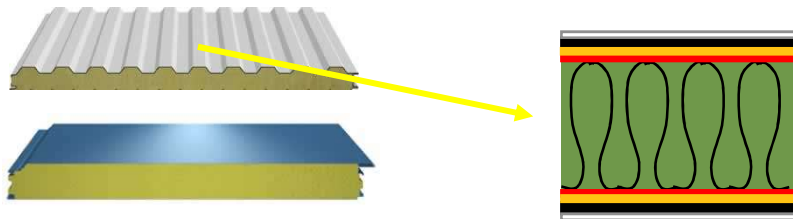
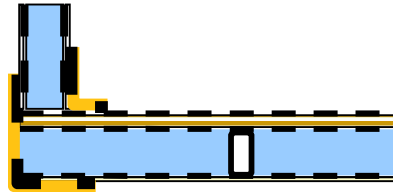
DECORATIVE GLASS BONDING



INDUSTRIAL LAMINATION

INSULATED PANELS FOR TRANSPORTATION, BUILDINGS

- 1c PUR SikaForce®
- 2c PUR SikaForce®
- 3c PUR SikaForce®



APPLIANCES & COMPONENTS

SIKA SOLUTIONS READY TO SUPPORT MARKET TRENDS



MARKET TREND

- New design
- Kitchen with glass fronts
- i-Kitchen

SIKA SOLUTIONS FOR

- Improved aesthetic aspect on final product



MARKET TREND

- Energy efficient A+++
- Less «nuts and bolts»
- Sustainability

SIKA SOLUTIONS FOR

- Noise reduction
- Weight and size reduction
- EHS, friendly products

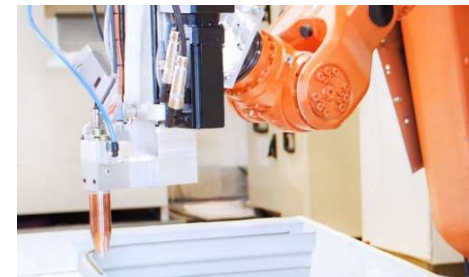


MARKET TREND

- Market price decrease
- Pressure on lowering production cost

SIKA SOLUTIONS FOR

- Products that fit full automation
- Simplified design / process

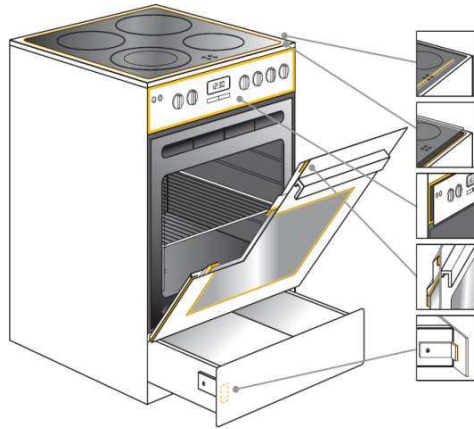


LEAN
DESIGN

IMPROVED PRODUCT
PERFORMANCE

COST
OPTIMIZATION

APPLIANCES AND APPLICATIONS



Cooker top bonding

- Sikasil®

Oven glass bonding

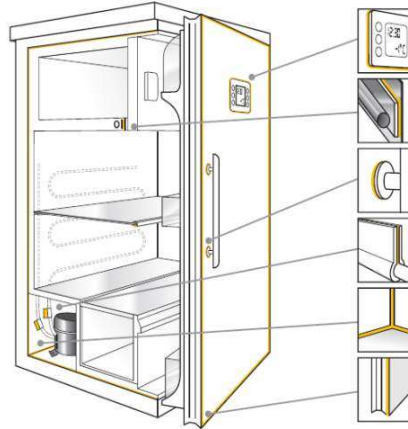
- Sikasil®

Ceramic hob backrail

- Sikasil®

Housing bonding & stiffening

- Sikasil® / SikaFast®



Decor panel bonding

- SikaMelt®

Seam sealing

- SikaMelt®

Accoustic dampening

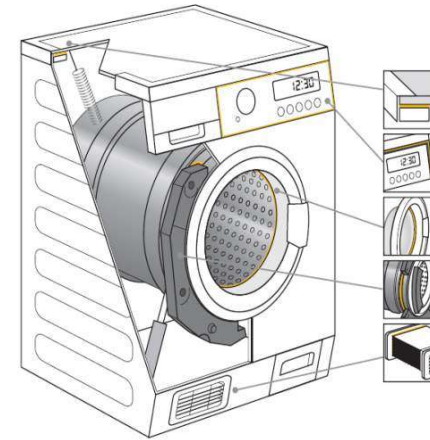
- SikaDamp®

Dew condensation prevention

- SikaDamp®

Housing bonding & stiffening

- SikaPower®



Top panel bonding

- SikaMelt®

Counter weight bonding

- Sikaflex®

Heat condenser bonding

- SikaForce®

Control panel bonding

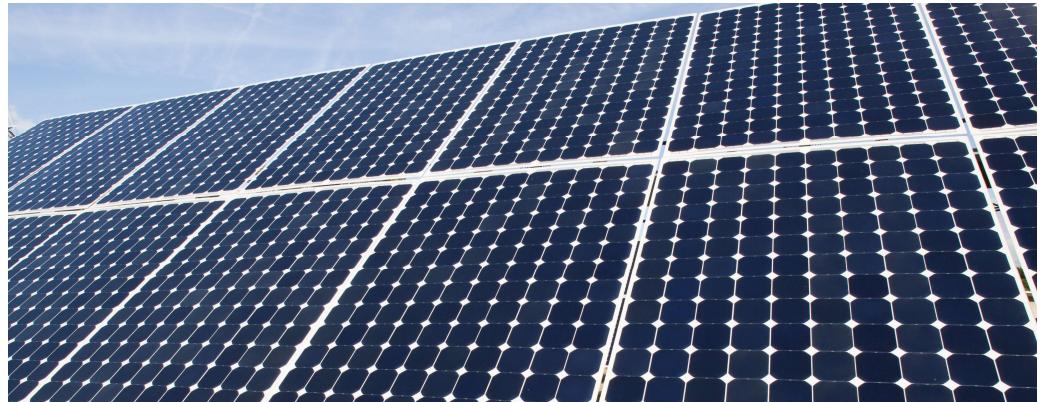
- SikaMelt®

Door Sealing

- SikaLastomer®

SOLAR SOLUTIONS

FOR BONDING AND MOUNTING



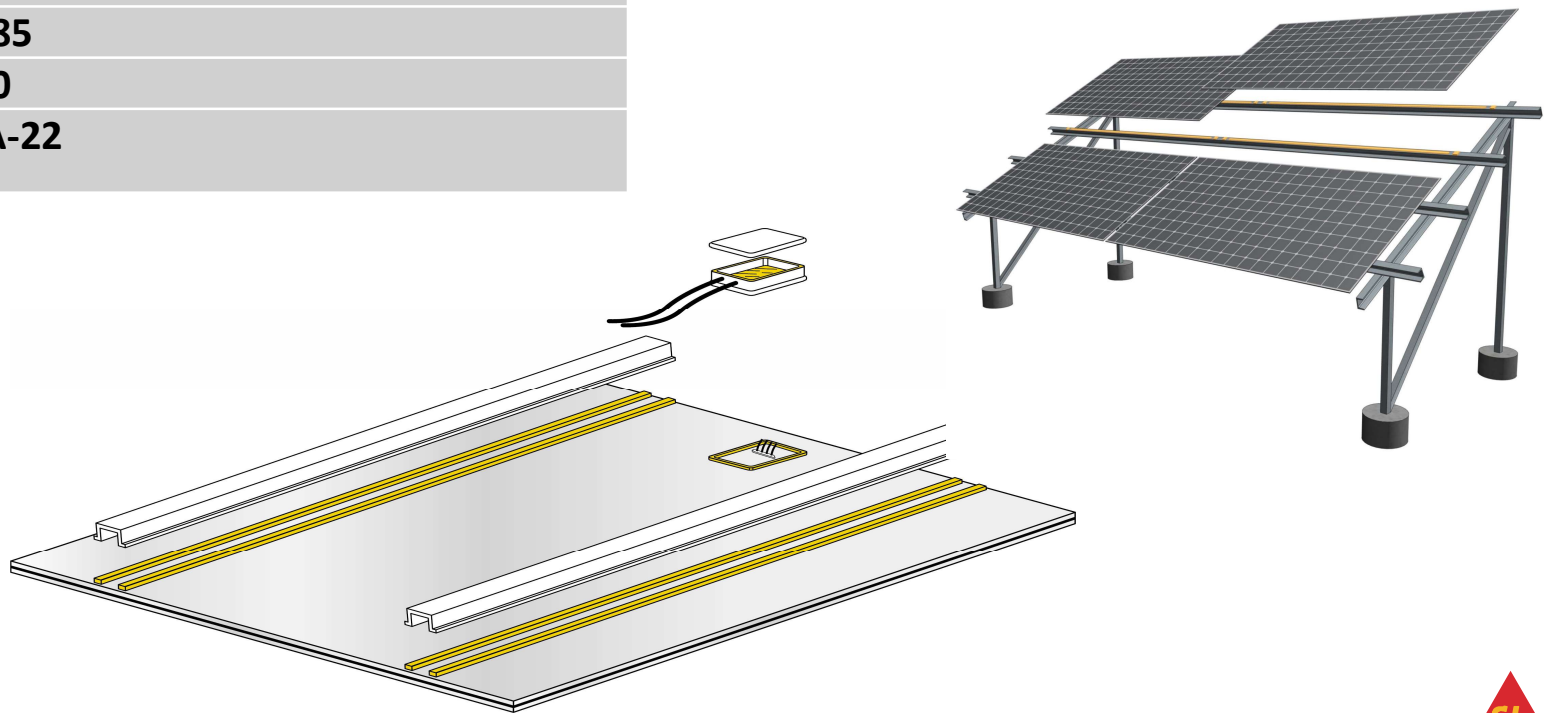
Structural Bonding of Modules to Mounting Systems

Sikasil® AS-780

Sikasil® AS-785

Sikasil® AS-70

Sika® Tape FA-22



FOCUSING ON THE CUSTOMER

Specialists in R&D and a powerful Technical Department develop solutions for the future. Our goal is to support customers in improving their product quality and manufacturing processes.

Marketfield Engineering

- Ensures on-site support and on-the-job training
- Supports engineering, application aspects, observes customer needs and initializes new developments



Product & Technology Engineering

- Conducts extensive tests and investigations to ensure high quality of the products during the entire life cycle



System Engineering

- Fully exploits the performance potential of Sika products by an optimal use of the right application technology



ENGINEERING SUPPORT BEYOND THE SUPPLY OF MATERIALS AND PRODUCTS



Globally organized and locally present, our teams help from the idea through design stage until end of life cycle.

- Organization of material and durability tests
- Helping determine best fit for production setups
- Providing tailored customer application trainings

RESEARCH AND DEVELOPMENT

With about 70 patent applications every year, Sika is one of the most innovative companies in Switzerland.

- 20 global technology centers
- 60 local centers for country-specific adjustments

HOW

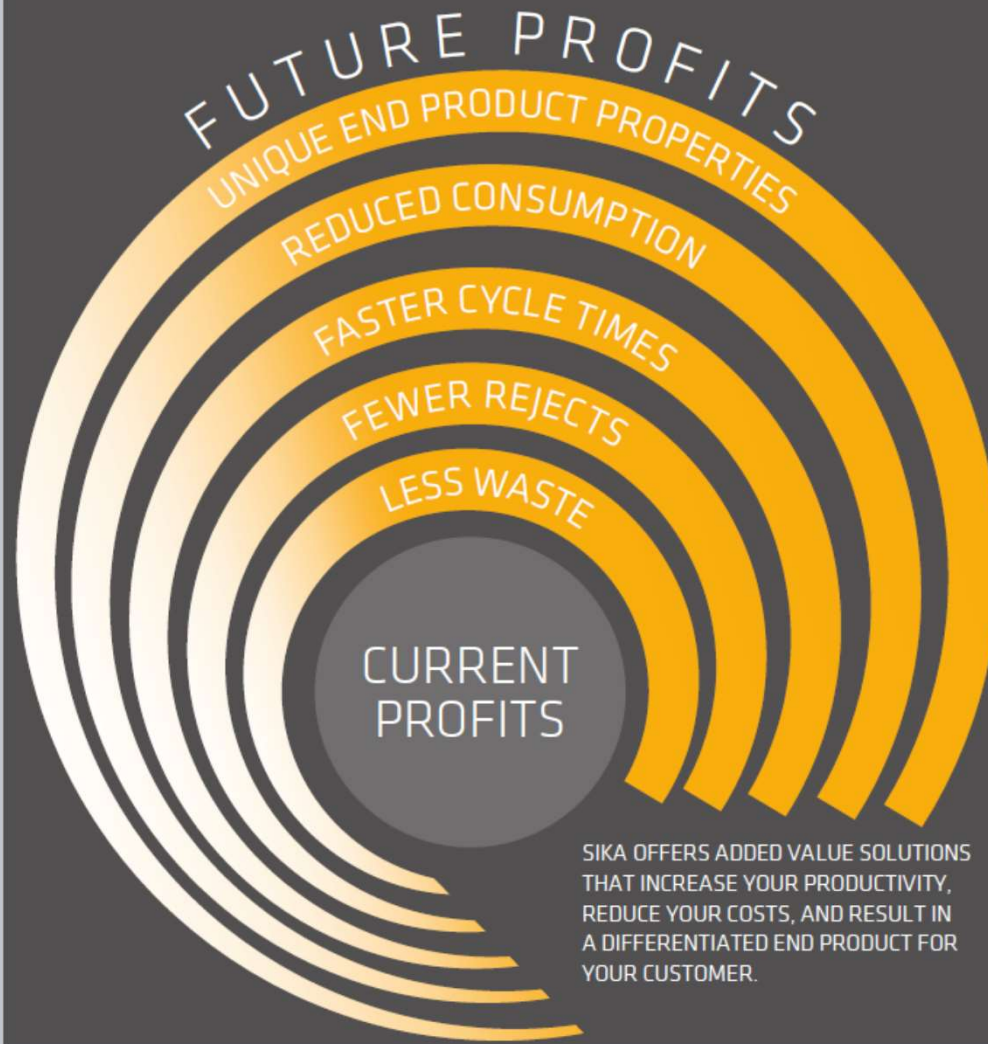
CAN SIKA INDUSTRY

HELP YOU?

BUILDING TRUST



OUR GOAL IS TO HELP YOU ACHIEVE YOUR TARGETS, NO MATTER WHAT OR WHERE. Our technical experts can help you assess key process steps as well as unit construction specifics that can be improved with Sika. With the right solution you benefit from optimized material consumption and cycle time, waste reduction, improved durability, noise reduction, lean design, and more.



SIKA OFFERS ADDED VALUE SOLUTIONS THAT INCREASE YOUR PRODUCTIVITY, REDUCE YOUR COSTS, AND RESULT IN A DIFFERENTIATED END PRODUCT FOR YOUR CUSTOMER.

BUILDING TRUST

