



# SIKA BONDED WALL SOLUTION

INDUSTRIALIZE MODULAR CONSTRUCTION WITH PRECISION AND DURABILITY

- Faster application cycles, from days to hours
- Compatible with manual, semi-automated, or fully automated environments
- Ensures consistent production without finishing, even during temperature shifts

**BUILDING TRUST**  
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# REDEFINING MODULAR WALL ASSEMBLY

Traditional “Frame-to-Surface” methods in modular construction are labor-intensive and prone to imperfections. Sika’s Surface-to-Frame approach revolutionizes wall production by prioritizing finished surface quality with advanced elastic adhesives to realize:

- 4-hour assembly vs. 1+ day with traditional methods.
- Zero visible fasteners, eliminating rework and finishing.
- Crack-resistant walls even during transport.

## THE MANUFACTURING GAP: WHERE TRADITIONAL METHODS FALL SHORT

<b>Compromise on Aesthetic Precision</b> Mechanical fasteners leave visible marks, forcing manufacturers to invest time and labor into filling, sanding, and refinishing surfaces	<b>Undermined Finish Quality</b> Minor warping in lumber or steel substrates translates to uneven wall surfaces that fail quality inspections
<b>Transit Damage</b> Shipping movement can create stress fractures around cutouts, demanding replacements and eroding product durability	<b>Labor-intensive Workflows</b> Labor-intensive drilling and fastening extend assembly times to 12+ hours per panel, hindering production

## TRADITIONAL METHODS VS. SIKA'S AUTOMATED ADVANTAGE

By reimagining wall assembly, Sika transforms these traditional limitations into opportunities for precision, speed, and scale.

Aspect	Traditional Mechanical Fastening	Sika Adhesive Bonding
Installation Time	8-12 hours per wall	4 hours per panel
Surface Finish	Visible screws, uneven seams	Smooth, fastener-free finish
Durability	Prone to cracks during transport	Vibration-resistant bonds
Labor Effort	High (sanding, filling, rework)	Minimal finishing (automation ready)
Scalability	Limited by manual processes	Robotic integration, climate-independent curing

# OUR UNIQUE SURFACE-TO-FRAME APPROACH FOR MODERN MANUFACTURING

Sika's innovative application rethinks wall assembly by applying adhesives from the back to secure the wall surface first. This ensures a straight, smooth finish that minimizes post-production work.

## Superior Bonding with Sikaflex®-545 Elastic Adhesive

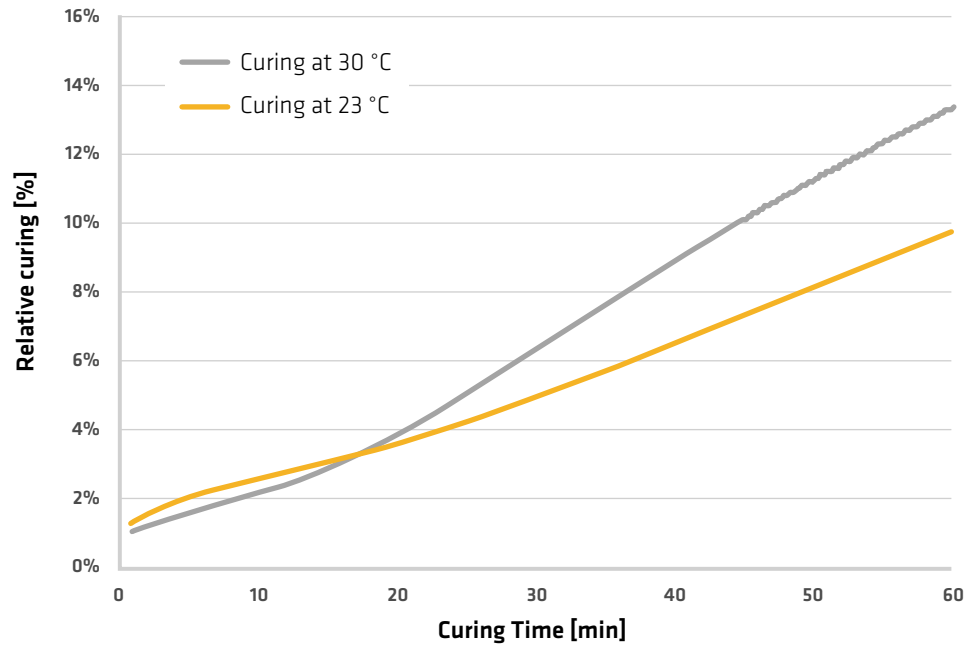
- Tolerance Compensation: Bonds uneven frames/surfaces with up to 3 mm gap filling.
- Flexible Cure: Reduces stress peaks, preventing cracks at cutouts (e.g., electrical outlets).
- Fast Handling: High initial grab for rapid repositioning.
- EHS Compliance: MDI-free, no special training required.

## Seamless Finishing with SikaBiresin® AP-300 Joint Filler

- 2C Formula: Single-step application, no taping required.
- Rapid Curing: Enables immediate handling and sanding.

## Climate-Independent Cure Performance with SikaBooster® S-50

- 2% added cure strength in 1 hour at room temperature (23°C).
- Accelerated curing at both 23°C and 30°C, even in variable production environments.
- Full cure in 24 hours for long-term durability, regardless of temperature fluctuations.



# SIKA INDUSTRY KNOW-HOW

Discover how we are adding value in other manufacturing industries.

## TRANSPORTATION - FUEL SAVING BUS DESIGN

**80 KG** STRUCTURAL WT REDUCTION

WITH **Sikaflex®**

LOW DENSITY ADHESIVES AND SEALANTS



## HOME APPLIANCES PRODUCTION

**50 %** MATERIAL SAVINGS

WITH **SikaMelt®**

HOTMELT REACTIVE PRODUCTS



## TRUCK CABINS

**25 %**

NOISE REDUCTION



WITH **SikaBaffle®**

AND **SikaDamp®**  
ACOUSTIC SYSTEMS

## INDUSTRIAL COMPONENTS - SANDWICH PANEL PRODUCTION

**30 %** FASTER

WITH **SikaForce®** THREE-COMPONENT SYSTEMS



## WIND POWER INDUSTRY - IN SITU REPAIR OF WIND TURBINE BLADES

**1 HOUR**

WITH **SikaForce®** AND **Sikadur®** REPAIR SYSTEMS



## SHIPBUILDING - MARINE VESSELS

UP TO  
**60 DB**

NOISE REDUCTION

WITH **Sikafloor® Marine**  
FLOATING  
FLOOR SYSTEMS



## CONSTRUCTION COMPONENTS - FRAME SIZE REDUCTION

**30 %**

SMALLER

WITH **Sikasil®**  
STRUCTURAL  
GLAZING  
ADHESIVES



## AUTOMOBILE

**450<sup>000</sup> TONS**

OF STEEL CAN BE SAVED EACH YEAR BY USING  
**SIKA TECHNOLOGY** WITH EXISTING PROCESSES



## SHIPBUILDING

**60 %** APPLICATION TIME SAVINGS

WITH **Sikafloor® Marine** UNDERLAYMENT SYSTEMS



# CONTACT US, FOR MORE INFORMATION



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

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