



# SOLAR SOLUTIONS HIGH PERFORMANCE BONDING TECHNOLOGIES FOR CSP

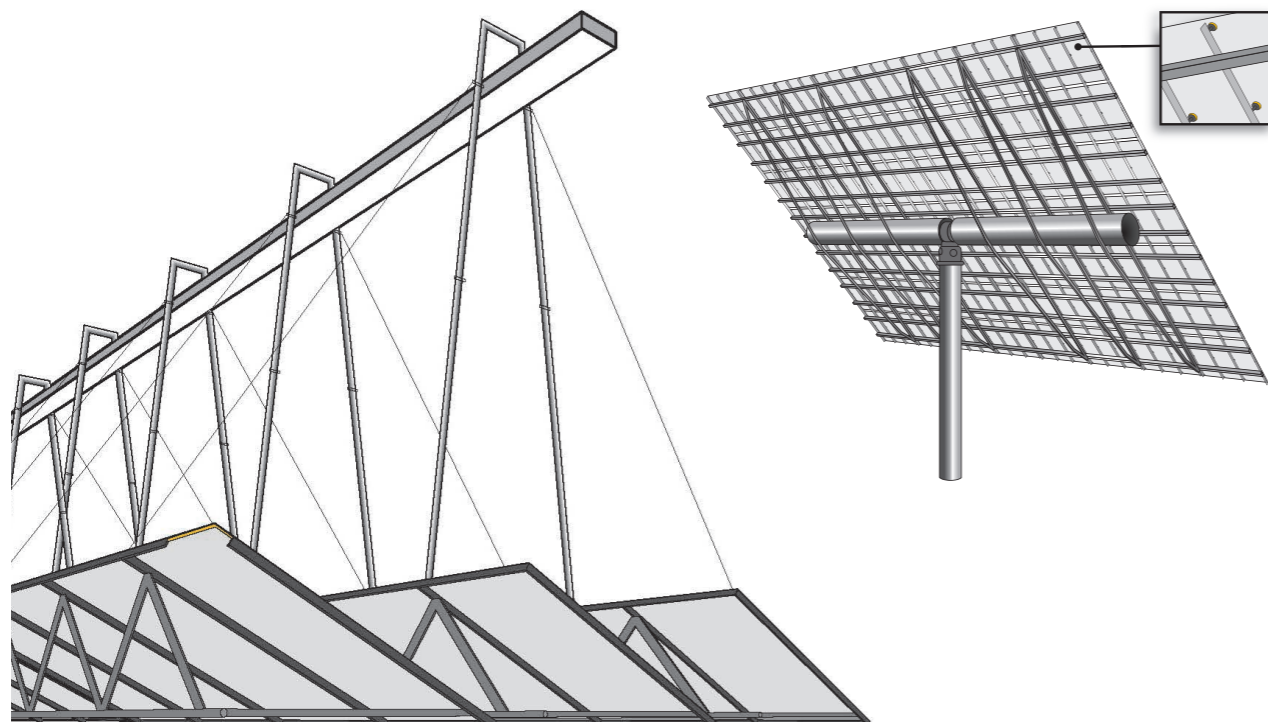
**BUILDING TRUST**



# SECURED MIRROR SYSTEMS WITH HIGH PERFORMANCE ADHESIVES

**IT SEEMS THAT ADHESIVES** are a minor part in the overall CSP system but in reality play a major role for the performance and durability of the mirror and CSP solution. As the adhesive technology bonds the mirrors to the fixation elements they secure the mirrors in the right place for service life of the system. If the adhesive system fails the mirrors may fall, break or the focus is out of target. Therefore the right adhesive selection, joint dimension and application process is crucial to secure the long term performance of the mirror and overall CSP system.

Next to the secured durability Sika provides adhesive solutions to optimize the production processes of bonding the fixation devices to the mirror systems. With different curing speeds and thixotropic behaviors of the adhesive technology Sika is able to offer solutions for every existing production process and process improvements.



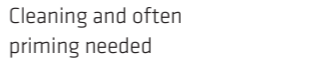
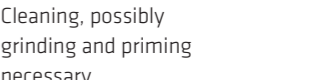
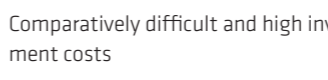
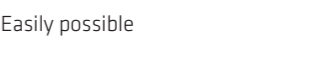
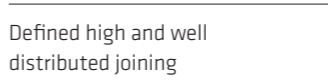


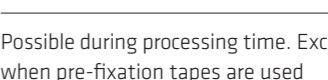

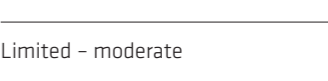
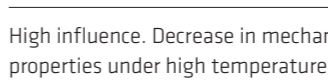
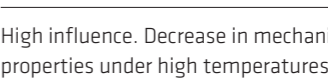




## BEST RECOMMENDED SIKA PRODUCTS FOR BONDING FIXATION SYSTEMS TO MIRRORS

Sikasil® AS-790	2-component ultra-fast curing Silicone adhesive
Sikasil® AS-785	2-component fast curing structural Silicone adhesive, meets EOTA ETAG 002
Sikaflex®-552	1-component Polyurethane Hybrid with high initial strength

# CHOOSING THE RIGHT TECHNOLOGY

**THE OUTSTANDING PERFORMANCE** of Silicone adhesive technologies in regard to long term durability has proven itself over decades in the facade, insulating glass and other highly demanding industries.

Parameter	Tapes	Organic adhesives (e.g. PU or MS)
Surface tolerances	Limited tolerance compensation. Completely leveled, parallel and smooth surface necessary 	Good tolerance compensation 
Pretreatment of surface	Cleaning and often priming needed 	Cleaning, possibly grinding and priming necessary 
Automated application	Comparatively difficult and high investment costs 	Easily possible 
Contact pressure	Defined high and well distributed joining pressure necessary 	Low demand on joining pressure and pressure distribution 
Correction on positioning	Not possible 	Possible during processing time. Except when pre-fixation tapes are used 
UV resistance	Limited - good 	Limited - moderate 
Temperature influence on properties	High influence. Decrease in mechanical properties under high temperatures 	High influence. Decrease in mechanical properties under high temperatures 
Weathering resistance	Limited 	Limited 

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### WHO WE ARE

Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar, wind power plants and facades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika's product lines feature highquality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

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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