

Progress in Technique and Application

A newly developed generation of hybrid adhesives and sealants in order to meet the specific requirements for car repair solutions!

Sika's Advanced Technology "AT"

Products with the Advanced Technology "AT" are based on a new type of hybrid polymer developed by Sika's own research and development department. It is a marriage between the successful Sika PU-Technology and the well known Modified Silicone-Technology (MS).

The advantage of this hybrid chemistry is the combination of the best properties of both the PU- and MS-Technology.



General Benefits of Sika's Advanced Technology

Adheres primerless to all substrates commonly used in body shops

⇒ robust and secure adhesion with minimal substrate preparation and therefore faster application

Outstanding application properties (e.g. shorter cut-off string)

⇒ easy, fast and clean application

Improved gunability

⇒ easier to extrude manually

Excellent smoothing / tooling properties at both low and high temperature

⇒ reduction in time and effort

Odourless, solvent-, isocyanate-, silicone- and PVC-free

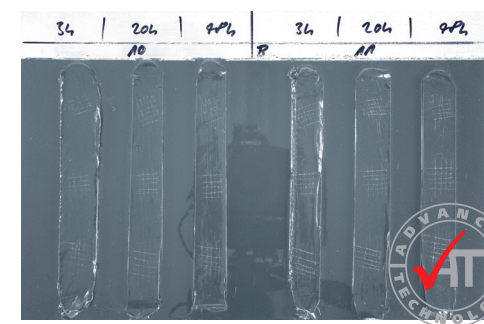
⇒ user and environmentally friendly

Ageing and weathering resistant

⇒ long-lasting joints, improved cosmetic appearance



Improved Over Paintability



In order to improve the over paintability of the new Sikaflex®-AT range significantly, Sika has tested more than 70 different formulations of the new products with various water-based paint systems from a multitude of suppliers. To confirm the flexibility of the working process in regards to the over paintability properties of the Sikaflex®-AT materials, the over painting test work was carried out immediately wet-on-wet, after 3, 24, 48 and even 72 hours.

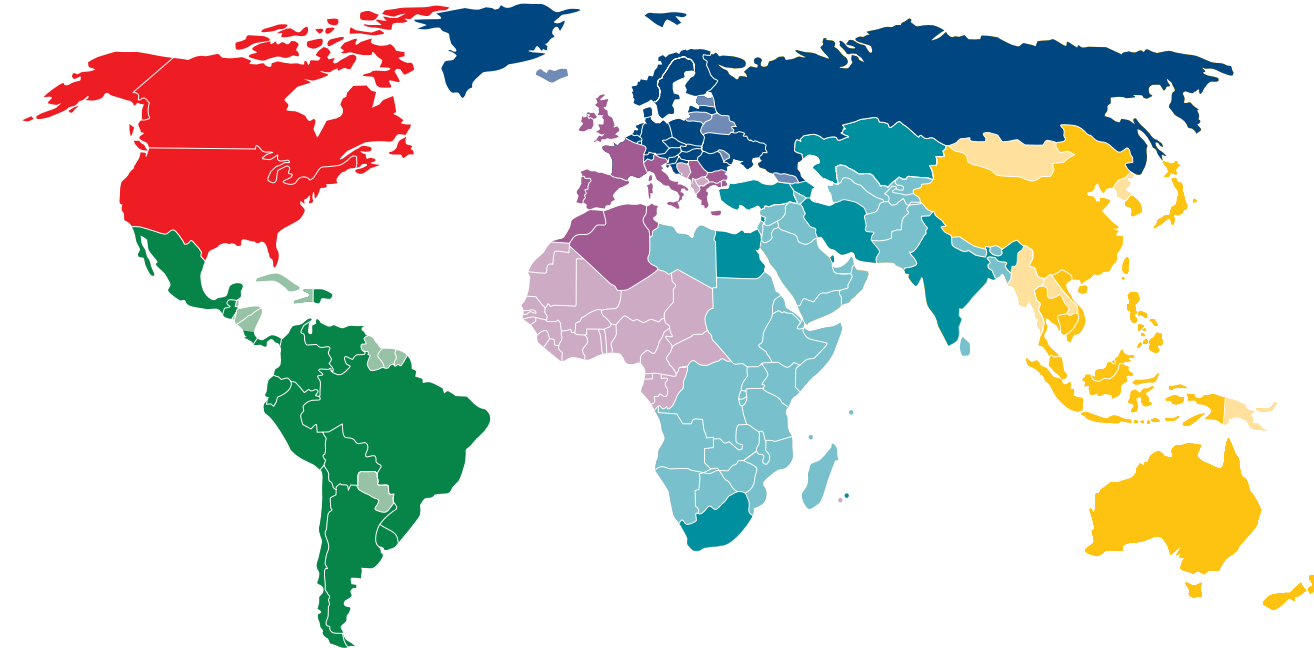
With the current formulations of Sikaflex®-527 AT and Sikaflex®-529 AT no visual defects were observed at any stage of the test work.



In addition, Sika conducted a so called Cross Cut Test in accordance with EN ISO 2409 in order to assess the paint adhesion performance to Sikaflex®-527 AT and Sikaflex®-529 AT. The test was carried out after 2 hours, 7 days, 1 month and 6 months of the material being painted. These different time parameters assure that there will be no paint delamination at any time after the painting process.

Even under these extreme test conditions, the new Sikaflex®-AT sealants showed no visible concerns and passed unreservedly.

Sika Worldwide



Sika is a globally active company supplying the specialty chemicals markets. It is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting load-bearing structures in construction (buildings and infrastructure construction) and in industry (vehicle, building component and equipment production).

Sika's product lines feature high-quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring and membranes. Subsidiaries in more than 70 countries worldwide and approximately 12,900 employees link customers directly to Sika.

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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.sika.com



Advanced Technology Solutions Adhesives and Sealants for Car Body Repair

Innovation & Consistency since 1910

Sealing, Spraying and Bonding

SEALING - ADHESIVE



Sikaflex® 256
The Black-Primerless Windscreen Adhesive System

Product Benefits

Direct glazing in automotive glass replacement
⇒ 1 component direct glazing adhesive that is easy to apply with a paste like consistency and cures on exposure to atmospheric moisture.

Good application behaviour
⇒ High bead stability and non-sag properties.

Long tack-free time
⇒ ensures a safe application even under warm conditions

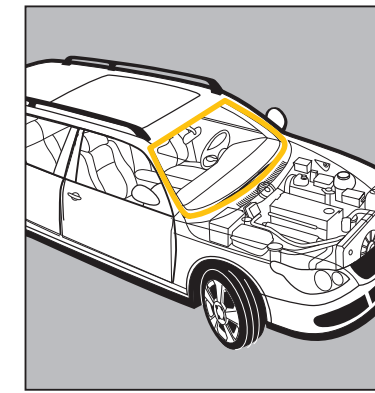
Quality assured
⇒ Manufactured in accordance with ISO 9001/14001 quality assurance system and responsible care program.

Areas of Application

- Suitable for direct glazing applications for Automotive Glass Replacement
- Primerless and a one component formulation
- Automotive OEM quality
- Safe application even under warm conditions



Primerless windscreen adhesive



SEALING - BODY SEALANT



Sikaflex® Fix
The Multi-Purpose Polyurethane Sealant – non sprayable

Product Benefits

Polyurethane technology
⇒ Multipurpose polyurethane joint sealer that cures on exposure to atmospheric moisture to form a durable elastomer

Bonds well to a variety of substrates
⇒ Such as glass, metal, paint coatings, ceramic materials and plastics.

Can be sanded and is over paintable
⇒ compatible with most commonly used paint systems

Permanently elastic and ageing resistant
⇒ perfect results, with long term vibration reduction properties

- Sealing of seams, flanges and lap joints
- Small interior spray seams (e.g. boot)
- Small exterior spray seams (e.g. wheel arches)
- Surface application (e.g. underside of the bonnet)



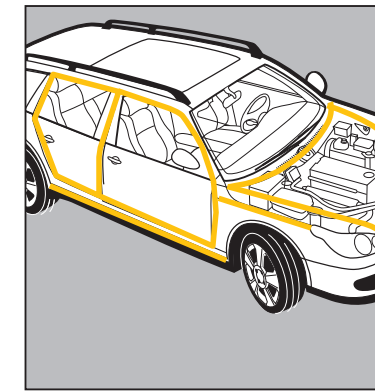
Lap joints sealing



Hem flange sealing



Body seam sealing



SEALING - SPRAYABLE



Sikaflex®-529 AT
The Spray- and Brushable Hybrid Sealant

Product Benefits

Over paintable with water-based paint systems wet-on-wet and after skin formation
⇒ compatible with most commonly used paint systems and provides a time independent working process

Sprayable, but also applicable as bead with associated excellent tooling properties with paint brush or spatula
⇒ simple, perfect reproduction of factory-provided original structures

Fast curing, no overspray and advanced non-sag properties
⇒ easy, clean and problem free product application

Permanently elastic and ageing resistant
⇒ long term water-resistant, acoustic and mechanical damping properties



- Sealing of seams, flanges and lap joints
- Small interior spray seams (e.g. boot)
- Small exterior spray seams (e.g. wheel arches)
- Surface application (e.g. underside of the bonnet)



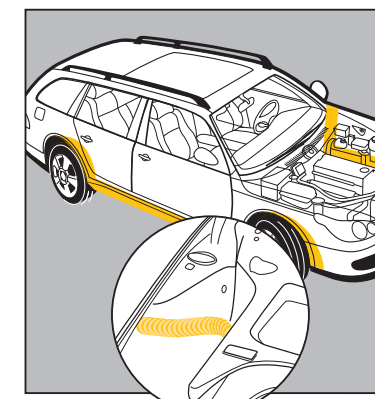
Spray seam sealing



Brush seam sealing



Surface coating



ELASTIC BONDING



Sikaflex®-552 AT
The High-Performance Hybrid Adhesive

Product Benefits

Fast curing, excellent non-sag properties and high green strength
⇒ easy, clean and problem free product application, no need for temporary fixing aids

Excellent adhesion to a wide variety of substrates without primer
⇒ faster application with lower error rate, capable of withstanding high dynamic stresses

Over paintable with water-based paint systems (be aware of bonded joint movements)
⇒ visually hidden joints

Ageing resistant, impact- und shock-proof
⇒ secure, long lasting bonded joints



- Bonding of accessories (e.g. spoilers, emblems)
- Interior bonding of panels (e.g. floor panels)
- Bonding of body panels (e.g. rear quarters, side panels)



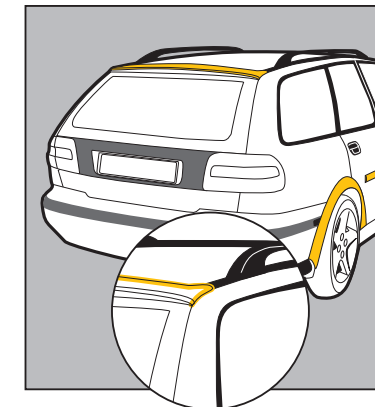
Spoiler bonding



Trim bonding



Panel bonding



Product Availability and Associated Items

SIKAFLEX®-AT RANGE AVAILABILITY

	Type	Packaging	Colour	Part no.
Sikaflex®-256	windscreen adhesive	12 x 300 ml cartridge	black	XXXXX
Sikaflex®-Fix	polyurethane sealant	12 x 400 ml unipack	black	XXXXXX
			light grey	XXXXXX
			white	XXXXXX
Sikaflex®-529 AT	sprayable sealant	12 x 290 ml cartridge (PE)	black	XXXXXX
			ochre	XXXXXX
Sikaflex®-529 AT	sprayable sealant	12 x 300 ml unipack	black	XXXXXX
			ochre	XXXXXX
Sikaflex®-552 AT	elastic adhesive	12 x 300 ml cartridge	black	XXXXXX
			white	XXXXXX
Sikaflex®-552 AT	elastic adhesive	20 x 600 ml unipack	black	XXXXXX
			white	XXXXXX

SIKA® SPRAY GUN



With the new Sika® Spray Gun a perfect spray finish of Sikaflex®-529 AT succeeds always, if applied appropriate.



Sikaflex®-529 AT: smooth and even spray finish for perfect over painting results.



Competitor's product: paint accumulates in troughs while peaks are exposed.

Sika® Spray Gun: Easy to use!

- 1 unscrew nozzle cap 1 to 2 rotations
- 2 unscrew regulating screw half a rotation
- 3 unscrew stop screw until approx. 10 mm of thread is visible

ASSOCIATED PRODUCTS & AUXILIARIES

	Type	Packaging	Part no.
Sikaflex®-521 UV	joint sealant for UV exposed areas	300 ml cartridges	XXXXXX
Sika® Cleaner-205	pre-treatment agent	250 ml can	XXXXXX
Sika® Remover-208	cleaner / remover	1000 ml can	XXXXXX
Sika® Jetflow Gun	air pressure spray gun for unipacks	1 pc	8937
Sika® Spray Gun	air pressure spray gun for cartridges	1 pc	180319
Sika® Hem Flange Nozzle	hem flange nozzle	12 pcs	179710