



ATTACHED TO YOUR WORLD

Sealants For Transportation

**SILYL MODIFIED POLYMER
SEALING · BONDING · GLAZING**



Adhesive solutions by **ARKEMA**



A GLOBAL LEADER IN SMART ADHESIVES

For more than a century, we have developed innovative sealing and bonding solutions that touch and improve people's daily lives. Customers worldwide use our bonding systems in countless applications, across various market segments, from industrial manufacturing, assembly and transportation, to daily mobility and e-mobility applications.

BOSTIK, AN ARKEMA COMPANY

We place sustainable development solutions at the heart of our innovation policy and product evolution. With the strong support of our parent company, Arkema, a leader in Specialty Materials, we bring you a unique position in the adhesives market: a capacity to innovate, tailored solutions, short time-to-market.

GLOBAL FOOTPRINT

Bostik is one of the world's largest adhesive and sealant companies.


€2.9bn
2022 annual sales


6,000⁺
employees


55
countries


4
R&D centres





BOSTIK SMP SOLUTIONS FOR TRANSPORTATION

SMP is the acronym for **Silyl Modified Polymer**, also known as **hybrid sealants**. They are developed to meet specifications of bonding strength, durability, and elasticity over a wide range of temperature and humidity conditions. SMP based sealants are mostly used for sealing, bonding and glazing applications in transportation and automotive.

BOOST YOUR PERFORMANCE WITH MORE SUSTAINABLE SOLUTIONS



PRIMERLESS APPLICATION

Boost productivity and quality while reducing cost-in-use!

- > No or limited surface preparation
- > Strong and durable fixing
- > Easy cleaning



MORE SUSTAINABLE SOLUTIONS

Safer for your employees, customers, and the environment!

- > Solvent free option
- > Isocyanate free technology
- > Less consumables



TECHNICAL ADVANTAGES

Strong ageing and weathering performance, high durability.

- > High UV resistance
- > No bubbling
- > Very good paintability



DISCOVER OUR SMP RANGES AND APPLICATIONS



SEALING & BONDING

- » Permanently elastic sealant
- » Wide range of skinning time available
- » Suitable for multiple substrates



BONDING

- » Excellent green strength
- » Good adhesion to non porous materials
- » Suitable in industrial applications requiring high overall performance



GLAZING

- » Very good green strength
- » Short drive-away time according to the FMVSS 212 crash test
- » Suitable for aftermarket applications

Premium solutions: ISR Range

Discover our ISR range that is a landmark in performance and versatility. With more than forty years experiences in the industry, Bostik ISR range offers premium robust and versertabe solutions. Moreover, certain products have obtained specific certification according to market requirment.

Beyond exceptional product features, ISR range products are globally available, which means we are able to supply customers from each region.

SEALING & BONDING					
Product	Skin forming time 23°C/50% R.H.	Shear stress ISO 4587	Elongation at break ISO 37 (dumbbells)	Shore A Hardness	Description
ISR 70-02 AP	ca. 60 min	ca. 1.0 MPa	ca. 250%	ca. 45	Multi-purpose adhesive & sealant External ageing resistance
ISR 70-03*	ca. 10 min	ca. 2.5 MPa	ca. 200%	ca. 58	Elastic bonding adhesive
ISR 70-03 FR	ca. 10 min	ca. 2.0 MPa	ca. 200%	ca. 50	Fire retardant certification: EN 45545 HL3, R22&R23
ISR 70-07	ca. 60 min	ca. 1.1 MPa	ca. 200%	ca. 40	Easy sprayable sealant

* - Fire retardancy according to EN45545-2 – HL3, R1&R7

- Longer skin forming time available: ISR 70-03 sskf

BONDING					
Product	Skin forming time 23°C/50% R.H.	Shear stress ISO 4587	Elongation at break ISO 37 (dumbbells)	Shore A Hardness	Description
ISR 70-03*	ca. 10 min	ca. 2.5 MPa	ca. 200%	ca. 58	Elastic bonding adhesive
ISR 70-05 AP*	ca. 10 min	ca. 2.3 MPa	ca. 200%	ca. 60	2h SDAT for 2 airbags

* - Fire retardancy according to EN45545-2 – HL3, R1&R7

- Longer skin forming time available: ISR 70-03 sskf; ISR 70 05 AP SSKF

GLAZING					
Product	Skin forming time 23°C/50% R.H.	Shear stress ISO 4587	Elongation at break ISO 37 (dumbbells)	Shore A Hardness	Description
ISR 70-08 AP*	ca. 10 min	ca. 2.3 MPa	ca. 200%	ca. 60	1h SDAT for 2 airbags
ISR 70-12 AP	ca. 10 min	ca. 2.3 MPa	ca. 200%	ca. 60	15mins SDAT for 2 airbags

* Fire retardant certification: EN45545-2 – HL3, R1&R7

STR series

The STR series offers new rebalanced properties and cost-effectiveness. As ISR range, they are also formulated without isocyanate and provide strong adhesion properties without primer on a wide variety of substrates.

They can therefore be used in many different industrial applications for sealing and bonding.

SEALING					
Product	Skin forming time 23°C/50% R.H.	Shear stress ISO 4587	Elongation at break ISO 37 (dumbbells)	Shore A Hardness	Description
STR 60-01	ca. 120 min	N/A	ca. 500%	ca. 25	Long open time & high elongation at break

SEALING & BONDING					
Product	Skin forming time 23°C/50% R.H.	Shear stress ISO 4587	Elongation at break ISO 37 (dumbbells)	Shore A Hardness	Description
STR 60-02	ca. 30 min	ca. 1.0 MPa	ca. 300%	ca. 45	Excellent multipurpose properties
STR 60-07	ca. 20 min	-	ca. 150%	ca. 55	Sprayable sealant

BONDING					
Product	Skin forming time 23°C/50% R.H.	Shear stress ISO 4587	Elongation at break ISO 37 (dumbbells)	Shore A Hardness	Description
STR 60-03	ca. 15 min	ca. 1.7 MPa	ca. 130%	ca. 60	High versatility
STR 60-05	ca. 25 min	ca. 1.8 MPa	ca. 200%	ca. 65	High initial green strength

For specific substrates, please contact our experts to learn more about surface preparation



DUAL SMP SYSTEM

The Dual SMP system produces a mixture with extreme green strength, faster cure times, and rapid total strength build up, which is independent from external influences (like humidity or temperature).

This system operates using a gear-based transmission gun design that combines SMP (A-component) with an accelerator (B-component).

SINGLE COMPONENT SMP



Core still curing
after 24 hours

DUAL SMP



Solid after 1 hour

Curing behavior (Shore hardness build up)

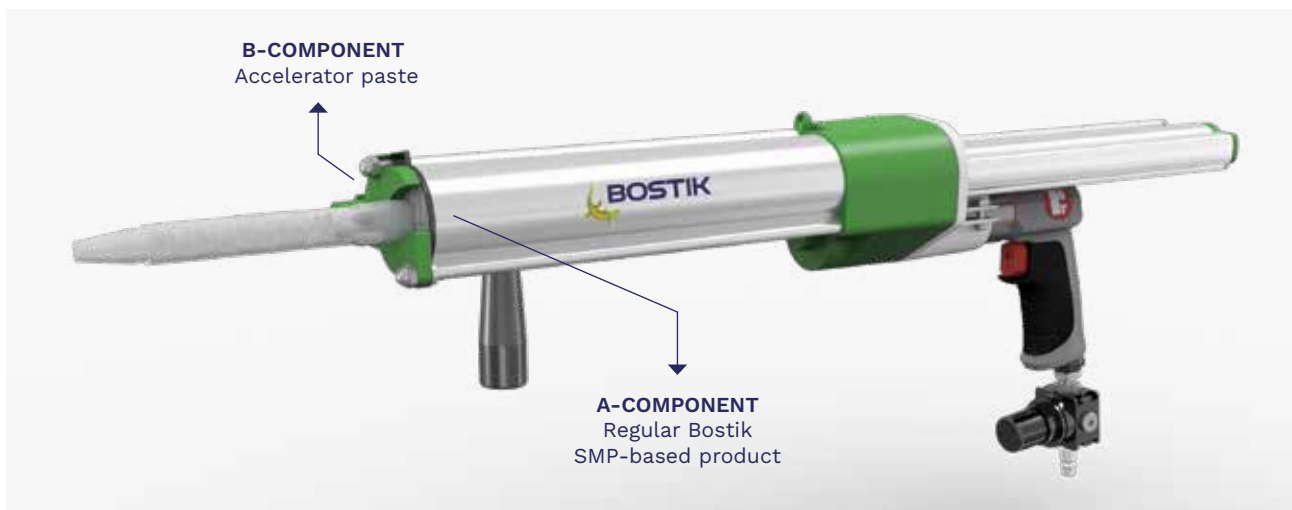
Single component SMP vs Dual SMP

1 2h 8

1 4h 19

7 24h 49

■ Single component SMP ■ Dual SMP



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