



# ISR 70-10

## Transparent

The Simson Industrial Special Range is a range of high tech quality products especially developed for industrial applications.

### Product

Simson ISR 70-10 is a good compromise between a sealant and an adhesive. ISR 70-10 is suitable for making clear elastic sealings and elastic constructive joints. ISR 70-10 is based on Silyl Modified Polymer (SMP).

### Applications

- Elastic bondings and sealings in e.g. bus-, caravan-, train- and yacht construction.
- Bonding and sealing of different coloured substrates.
- Topsealing of glass substrates to wood/metal connections.
- Topsealing of glass - glass (protect the interface with Simson Prep G).
- Sealing GRP or aluminium trims/profiles on painted or precoated panels.

### Features

- Transparent.
- Solvent-, isocyanate- and PVC free.
- Very good UV-resistance and ageing properties.
- In general good adhesion on several substrates without the use of a primer.
- Permanently elastic in a temperature range of  $-40^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$ .
- Neutral, odourless and fast curing.
- Paint compatible with most industrial paint- or lacquer systems, both alkyd resin and dispersion based (due to the large scale of different types of industrial paints a paint compatibility test is recommended).
- Good resistance against fungi growth.

**NOTE:** ISR 70-10 is clear green inside the cartridge and after curing clear bluish.

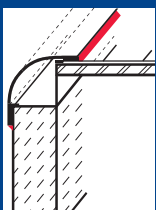
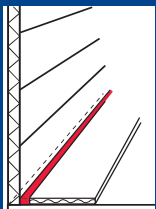
### Adhesion

In general ISR 70-10 adheres well without primer on clean, dry, dust- and grease free substrates of aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder coated metal, most lacquered metal surfaces, glass, PVC, polyester (GRP), painted and lacquered wood, etc. No adhesion on untreated polyethylene, polypropylene and teflon. In those cases where, due to great thermal or physical loads and especially under wet conditions, high adhesion demands are needed, the use of Simson Prep M is recommended. Prep M degreases and prepares the surface of the substrate in one step. On plain, untreated wooden surfaces and other porous substrates Simson Prep P is recommended. For more details concerning Prep M and Prep P consult the specific Technical Data Sheets.

For not mentioned substrates and additional information consult Bostik.

### Method of use

ISR 70-10 can easily be extruded with a hand- or air pressure gun at temperatures between  $+5^{\circ}\text{C}$  and  $+35^{\circ}\text{C}$ . In sealing applications ISR 70-10 should be tooled or smoothed within 15 minutes (at  $20^{\circ}\text{C}/50\% \text{R.H.}$ ) with a spatula or putty knife, occasionally moistened with a soap solution. Avoid soap solution penetrating between joint sides and sealant, because this will create loss of adhesion.





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In bonding applications the substrates have to be assembled within 20 minutes (at 20°C/50%R.H.) after applying ISR 70-10. In general an adhesive thickness of 2 mm is recommended. At a temperature of +20°C and a relative humidity of 50% ISR 70-10 can be painted with the most industrial paints already 15 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying ISR 70-10. Cleaning tools or removing uncured residue of ISR 70-10 can be done with a clean colourless cloth, wetted with Simson Liquid 1. It is recommended to make a trial first to check possible attack the substrate by Liquid 1.

### Technical data

Basic material	Silyl Modified Polymer (SMP)	
Curing method	moisture	
Specific gravity	ca. 1.05 g/ml	
Skin forming time	ca. 15 min.	(20°C/50% R.H.)
Open time	< 20 min.	(20°C/50%R.H.)
Curing speed after 24 hrs	ca. 4 mm	(20°C/50%R.H.)
Shore A hardness	ca. 35	(DIN 53505)
Volume change	< 3%	(DIN 52451)
Tensile stress (100%)	ca. 0.8 MPa	(DIN 53504/ISO 37)
Tensile stress at break	ca. 1.7 MPa	(DIN 53504/ISO 37)
Elongation at break	ca. 225%	(DIN 53504/ISO 37)
Tensile stress (100%)	ca. 0.8 MPa	(DIN 52455 - H-piece)
Tensile stress at break	ca. 1.0 MPa	(DIN 52455 - H-piece)
Elongation at break	ca. 150%	(DIN 52455 - H-piece)
Shear stress	ca. 1.4 MPa (Alu-Alu; adh. thickness 2 mm; test speed 50 mm/min.)	(DIN 53283/ASTM D1002)
Tear propagation	ca. 5 N/mm (Type C, test speed 500 mm/min.)	(DIN 53515/ISO 34)
Solvent percentage	0%	
Isocyanate percentage	0%	
Temperature resistance	-40°C till +100°C	
Application temperature	+5°C till +35°C	
UV- and weather resistance	good	
Colour	transparent	
Packaging	290 ml cartridges, other packaging on request.	

### Storage stability

ISR 70-10 can be stored for 12 months in an original, unopened container in a dry place at temperatures between +5°C and +30°C (cartridges 18 months).

### Further information

The following publication is available on request:

- Material Safety Data Sheets (MSDS)

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For more Bostik locations please consult [www.bostik.com](http://www.bostik.com)

**Bostik**  
The Adhesive Company

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