



ISR 70-01

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

Product

Simson ISR 70-01 is a multi-purpose, permanent elastic sealant with very good ageing properties, suitable for applications where within the product strong movement can occur yet a seal is still required. ISR 70-01 is based on SMP (Silyl Modified Polymer) technology.

Applications

- Sealings in e.g. bus-, caravan-, train- and truck construction.
- Sealing of air conditioning equipment.
- Sealing of aluminium (airfreight) containers.
- Sealant for sound and vibration reducing applications.

Features

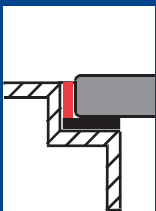
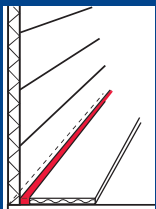
- Solvent-, isocyanate- and PVC free.
- Very good UV-resistance and ageing properties.
- In general good adhesion on several substrates without the use of a primer.
- Permanent elastic within temperatures from -40°C till $+100^{\circ}\text{C}$.
- Neutral, odourless and fast curing.
- Paint compatible 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)
- Paintable after skin forming (wet on wet); this will not influence the curing speed.
- Tested according to ISO 846 method A and C.

Adhesion

In general ISR 70-01 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 70-01 can easily be extruded with a hand- or air pressure gun at temperatures between $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$. ISR 70-01 should be tooled or smoothened within 30 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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At a temperature of +20°C and a relative humidity of 50% ISR 70-01 can be painted with the most industrial paints already 30 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying ISR 70-01. Cleaning tools or removing uncured residue of ISR 70-01 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 of the substrate by Liquid 1.

Technical data

Basic material	Silyl Modified Polymer (SMP)	
Curing method	moisture	
Specific gravity	ca. 1.4 g/ml	
Skin forming time	ca. 30 min.	(20°C/50% R.H.)
Curing speed after 24 hrs	ca. 3 mm	(20°C/50% R.H.)
Shore A hardness	ca. 26	(DIN 53505)
Volume change	< 3%	(DIN 52451)
Green strength	ca. 300 Pa	(Physica Rheometer MC100)
	(max. load which can be applied per m ² uncured adhesive without sagging)	
Tensile stress (100%)	ca. 0.9 MPa	(DIN 53504/ISO 37)
Tensile stress at break	ca. 1.7 MPa	(DIN 53504/ISO 37)
Elongation at break	ca. 300%	(DIN 53504/ISO 37)
Shear stress	ca. 1.8 MPa	(DIN 53283/ASTM D1002)
	(Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.)	
Tear propagation	ca. 15 N/mm	(DIN 53515/ISO 34)
	(Type C, test speed 500 mm/min.)	
Solvent percentage	0%	
Isocyanate percentage	0%	
Temperature resistance	- 40°C till +100°C	
Application temperature	+5°C till +35°C	
UV- and weather resistance	excellent	
Colours (standard)	white, grey, black	
Packaging	290 ml cartridges, 600 ml sausages, other packaging on request.	

Storage stability

ISR 70-01 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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