



ISR 70-03



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

Product

Simson ISR 70-03 is a good compromise between an adhesive and a sealant. Simson ISR 70-03 is suitable for making elastic constructive joints, which also require a high strength. Simson ISR 70-03 is based on Silyl Modified Polymer (SMP). Simson ISR 70-03 used with the Dual SMP® technology guarantees an increased and controlled cure speed and reliability in the production process and extends the application possibilities.

Applications

- Elastic bondings and sealings in e.g. bus-, caravan-, train- and truck construction.
- Bonding and sealing of sunroof systems.
- Bonding of roofs on busses, trains, trucks.
- Bonding of corner profiles of aluminium or polyester on trailers.
- Bonding of polyester parts on metal frames.
- Bonding of floor systems.
- Sealing welded seams.

Features

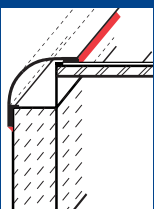
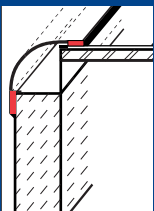
- Solvent-, isocyanate- and PVC free.
- Very good UV-resistance and ageing properties.
- In general good adhesion on several substrates without the use of a primer.
- Permanent elastic within temperatures from -40°C till +120°C.
- Neutral, odourless and fast curing.
- Paint compatible with most industrial 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.

Adhesion

In general Simson ISR 70-03 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, especially under wet conditions, high adhesion demands are needed, the use of Simson Primer M is recommended. Simson Primer M is a so called 'wash primer' and degreases and prepares the surface of the substrate in one step. On plain, untreated wooden surfaces and other porous substrates Simson Primer P is recommended. For more details concerning Simson Primer M and Simson Primer P consult the specific technical information data sheet. For not mentioned substrates and additional information consult Bostik Findley.

Method of use

Simson ISR 70-03 can easily be extruded with a hand- or air pressure gun at temperatures between +5°C and 35°C. In sealing applications Simson ISR 70-03 should be tooled or smoothed within 10 minutes (at 20°C/50% R.H.) with a spatula or putty knife, occasionally moistened with a soap solution.





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Avoid soap solution penetrating between joint sides and sealant, because this will create loss of adhesion. In bonding applications the substrates have to be assembled within 15 minutes (at 20°C/50% R.H.) after applying Simson ISR 70-03. In general an adhesive thickness of 2 mm is recommended. At a temperature of 20°C and a relative humidity of 50% Simson ISR 70-03 can be painted with the most industrial paints already 10 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying Simson ISR 70-03. Cleaning tools or removing uncured residue of Simson ISR 70-03 can be done with a clean colourless cloth, wetted with Simson SMP Remover. It is recommended to make a trial first to check possible attack of the substrate by Simson SMP Remover.

Technical data

Basic material	Silyl Modified Polymer (SMP)	
Curing method	moisture	
Specific gravity	ca. 1.4 g/ml	
Skin forming time	ca. 10 min.	(20°C/50% R.H.)
Open time	< 15 min.*	(20°C/50% R.H.)
Curing speed after 24 hrs	ca. 3 mm	(20°C/50% R.H.)
Shore A hardness	ca. 55	(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. 1.7 MPa	(DIN 53504/ISO 37)
Tensile stress at break	ca. 2.6 MPa	(DIN 53504/ISO 37)
Elongation at break	ca. 250%	(DIN 53504/ISO 37)
Shear stress	ca. 2.5 MPa	(DIN 53283/ASTM D1002)
	(Alu-Alu; adh. thickness 2mm, test speed 50 mm/min.)	
Tear propagation	ca. 16 N/mm	(DIN 53515/ISO 34)
	(Type C, test speed 500 mm/min.)	
E-Modulus(10%)	ca. 3.3 MPa	(DIN 53504/ISO 37)
Solvent percentage	0%	
Isocyanate percentage	0%	
Temperature resistance	- 40°C till +120°C	
Temperature resistance	+180°C	(max. 1/2 hr)
Application temperature	+5°C till +35°C	
UV- and weather resistance	excellent	
Colours (standard)	white, grey, black	
Packaging	290 ml cartridges, 400 ml and 600 ml bags, other packaging on request.	

* Also available in a longer open time (Simson ISR 70-03 sskf).

Storage stability

Simson ISR 70-03 may be stored for 12 months in a closed (unopened) container in a dry place at temperatures between + 5°C and +30°C (cartridges 18 months).

Safety precautions

No specific safety precautions required. Consult safety data sheet.

Transport classification

Not applicable.

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