



ISR 70-07

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

Product

Simson ISR 70-07 is a solventfree, low viscous sprayable sealant, based on Silyl Modified Polymer (SMP) with a special spray structure for sealing overlapping seams, welded seams and construction seams in automotive and coach work.

Applications

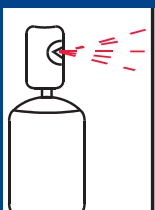
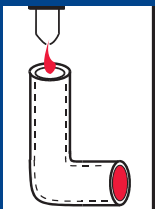
- Sealing of welded- overlap- and construction seams.
- Overlaps of seams between PVC and metal.
- For coating inside car wings, boots and bonnets and even as underbody coating.
- As repair material in all above mentioned applications.
- Sealing narrow seams and sealing small holes.
- As a vibration reducing coating.

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.
- Contributes to corrosion protection; does not attack metals.
- By adjusting the spray pressure and nozzle it is possible to obtain a rough or a fine spray structure.

Adhesion

In general ISR 70-07 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.





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Method of use

ISR 70-07 is sprayed by means of an appropriate air pressure gun with adjustable nozzle at a distance of 30-40 cm from the object. By adjusting the nozzle and the air pressure it is possible to obtain a smoother (orange peel) or a rougher structure. It is recommended to make a small trial first, so that the proper combination of nozzle and pressure can be determined in order to obtain the desired final result.

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. 2 mm	(20°C/50% R.H.)
Shore A hardness	ca. 45	(DIN 53505)
Volume change	< 4%	(DIN 52451)
Green strength	ca. 35 Pa	(Physica Rheometer MC100) (max. load which can be applied per m ² uncured adhesive without sagging)
Tensile stress (100%)	ca. 1.1 MPa	(DIN 53504/ISO 37)
Tensile stress at break	ca. 1.5 MPa	(DIN 53504/ISO 37)
Elongation at break	ca. 175%	(DIN 53504/ISO 37)
Shear stress	ca. 1.1 MPa	(DIN 53283/ASTM D1002) (Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.)
Tear propagation	ca. 6 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)	grey	
Packaging	290 ml cartridges, other packaging on request.	

Storage stability

ISR 70-07 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

Bostik
The Adhesive Company

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