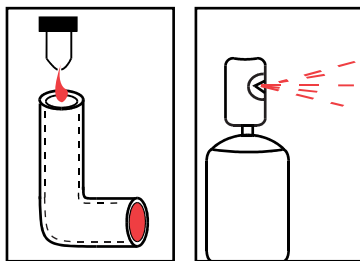




INDUSTRIAL SPECIAL RANGE



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 solvent-free, 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 aging properties
- In general, good adhesion on several substrates without the use of a primer
- Permanent elastic within temperatures from -40°F to 212°F (-40°C to +100°C)
- Neutral, odorless 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 cure rate
- 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, Simson 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, 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 substrates not mentioned and for additional information consult Bostik Findley.

METHOD OF USE

Simson ISR 70-07 is sprayed by means of an appropriate air pressure gun with adjustable nozzle at a distance of 98-131 feet (30-40m) 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.

Simson ISR 70-07

TECHNICAL DATA

Basic Material	Silyl Modified Polymer (SMP)	
Curing Method	Moisture	
Specific Gravity	ca. 1.4 g/ml	
Skin Forming Time	ca. 30 min.	(70°F/20°C @ 50% R.H.)
Curing Speed after 24 hrs.	0.079 in. (ca. 2 mm)	(70°F/20°C @ 50% R.H.)
Shore A Hardness	ca. 45	(DIN 53505)
Volume Change	< 4%	(DIN 52451)
Green Strength	ca. 35 Pa	(Physical Rheometer MC100)
	(maximum load which can be applied per m ² uncured adhesive without sagging)	

Tensile Stress (100%)	160 psi (ca. 1.1 MPa)	(DIN 53504/ISO 37)
Tensile Stress @ break	220 psi (ca. 1.5 MPa)	(DIN 53504/ISO 37)
Elongation @ Break	ca. 175%	(DIN 53504/ISO 37)
Shear Stress	160 psi (ca. 1.1 MPa)	(DIN 53283/ASTM D1002)

(Aluminum-to-Aluminum; adhesive thickness 2mm, test speed 50 mm/min.)

Tear Propagation	ca. 6 N/mm	(DIN 53515/ISO 34)
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(Type C, test speed 500 mm/min.)

Solvent Percentage	0%
Isocyanate Percentage	0%
Temperature Resistance	-40°F to 212°F (-40°C to +100°C)
Application Temperature	41°F to 95°F (+5°C to +35°C)
UV and Weather Resistance	Excellent
Colors (Standard)	Grey, Black
Packaging	9.81 oz. (290 ml) cartridges, other packaging on request.

STORAGE STABILITY

Simson ISR 70-07 may be stored for 18 months (in cartridges) in a closed (unopened) container in a dry place at temperatures between 41°F to 86°F (+5°C to +30°C).

SAFETY PRECAUTIONS

No specific safety precautions required. Consult safety data sheet.

TRANSPORT CLASSIFICATION

Not applicable.

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Because the design, the quality of the substrate and the conditions during application fall beyond our control, no responsibility for executed works can be accepted on the basis of this documentation. We therefore recommend to carry out own tests on the spot.

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