



SIMSON ISR 70-01

SILYL MODIFIED POLYMER

KEY BENEFITS

- Durable and reliable seals
- Accommodates high thermal expansion
- Safe for workers and environment

DESCRIPTION

Simson ISR 70-01 is a high quality permanently elastic sealant based on Silyl Modified Polymers (SMP). Due to its high elasticity and low hardness, it is especially suitable for applications which are subject to large movements. Simson ISR 70-01 has excellent resistance to UV, weather and temperature and is free of solvents, isocyanates and silicone. It exhibits excellent adhesion performance on a wide variety of substrates (minimal or no pre-treatment necessary) and can be over-painted with common industrial paints.

APPLICATION

- Sealing 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 +110°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

TECHNICAL DATA

CHARACTERISTIC		VALUE
Basic material		Silyl Modified Polymer (SMP)
Curing method		Moisture
Specific gravity	[g/ml]	ca. 1.4
Skin forming time 20°C/50% R.H.	[min]	ca. 30
Curing speed after 24 hrs 20°C/50% R.H.	[mm]	ca. 3
Shore A hardness DIN 53505		ca. 20
Volume change DIN 52451	[%]	<3
Tensile stress (100%) DIN 53504/ISO 37	[MPa]	ca. 0.6
Tensile stress at break DIN 53504/ISO 37	[MPa]	ca. 1.5
Elongation at break DIN 53504/ISO 37	[%]	ca. 350
Tear propagation * DIN 53515/ISO 34	[N/mm]	ca. 10
Solvent percentage	[%]	0
Isocyanate percentage	[%]	0
Temperature resistance	[°C]	- 40 till + 100
Application temperature	[°C]	+5 to +35
UV- and weather resistance		Excellent
Colours		White, grey, black
Packaging		290 ml cartridges, 600 ml sausages

* Type C, test speed 500 mm/min.

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 Sheet. 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°C and +35°C. ISR 70-01 should be tooled or smoothened within 30 minutes (at 20°C/50% 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.

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.

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)

The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and the equipment used for application. Any change in any of these variables can affect the product's performance. It is the buyer's obligation, prior to using the product, to test the suitability of the product for an intended use under the conditions that will exist at the time of the intended use. Bostik does not warrant the product's suitability for any particular application. The product is sold pursuant to Bostik's Terms and Conditions of Sale that accompanies the product at the time of sale. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

SMART HELP

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