



SIMSON ISR 70-07

SILYL MODIFIED POLYMER

KEY BENEFITS

- Sprayable
- Durable and reliable bonds and seals
- Safe for workers and environment

DESCRIPTION

Simson ISR 70-07 is a low viscous and easy sprayable sealant / adhesive based on Silyl Modified Polymers (SMP). With a special spray gun, different spray structures can be obtained for sealing overlap and welded seams. Simson ISR 70-07 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 of welded- overlap- and construction seams in automotive and coach work
- 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°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

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. 2
Shore A hardness DIN 53505		ca. 45
Volume change DIN 52451	[%]	<4
Green strength * Physica Rheometer MC100	[Pa]	ca.35
Tensile stress (100%) DIN 53504/ISO 37	[MPa]	ca. 1.1
Tensile stress at break DIN 53504/ISO 37	[MPa]	ca. 1.5
Elongation at break DIN 53504/ISO 37	[%]	ca. 175
Shear stress ** DIN 53283/ASTM D1002	[MPa]	ca. 1.1
Tear propagation *** DIN 53515/ISO 34	[N/mm]	ca. 6
E-Modulus (10%) DIN 53504/ISO 37	[MPa]	ca. 3.3
Solvent percentage	[%]	0
Isocyanate percentage	[%]	0
Temperature resistance	[°C]	- 40 till + 100
Application temperature	[°C]	+5 to +35
UV- and weather resistance		Excellent
Colour		Grey
Packaging		290 ml cartridges 20L drum

* Max. load which can be applied per sqm uncured adhesive without sagging.

** Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.

*** Type C, test speed 500 mm/min.

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 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.

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

METHOD OF USE

Simson 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.

STORAGE STABILITY

Simson ISR 70-07 can be stored for 18 months in cartridges and 12 months in sausages, in an original, unopened container in a dry place at temperatures between +5°C and +30°C.

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

Please contact your local representative

