



Technical Data Sheet

Simson ISR 70-03

Description

ISR 70-03 is a good compromise between an adhesive and a sealant. ISR 70-03 is suitable for making elastic constructive joints, which also require a high strength. ISR 70-03 is based on Silyl Modified Polymer.

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 $+120^{\circ}\text{C}$.
- 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.

Recommended Uses

- Elastic bonding and sealing in bus, caravan, train and truck construction.
- Bonding and sealing of sunroof systems.
- Bonding of roofs on buses, 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.

Application Instructions

Surface Preparation

In general 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. Primer M 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 Primer M and Primer P, consult the specific technical data sheets. For other substrates and additional information consult Bostik.

Application of Simson ISR 70-03

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

Avoid soap solution penetrating between joint sides and sealant, because this will cause loss of adhesion.

In bonding applications, the substrates must be assembled within 15 minutes (at $20^{\circ}\text{C}/50\% \text{ R.H.}$) after applying 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%, ISR 70-03 can be painted with the most industrial paints 10 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying ISR 70-03.

Clean up after Installation

Excess material should be removed by wiping with clean dry cloth. Remaining material should be cleaned with Bostik Handi-Clean Towels or IPA (Iso propyl alcohol).





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Properties

Colour/s:	Black, Grey and White	Curing Speed after 24hrs:	Approximately 3 mm (20°C/50% R.H.)
Basic Material:	Silyl Modified Polymer (SMP)	Shore A Hardness:	Approximately 55 (DIN 53505)
Specific gravity:	Approximately 1.4g/ml	Volume Change:	<3% (DIN 52451)
Curing Method:	Moisture	Green Strength:	Approximately 300 Pa (Physical Rheometer MC 100)
Skin Forming Time:	Approximately 10 minutes (20°C/50% R.H.)	Tensile Stress (100%):	Approximately 1.7 Mpa (DIN 53504/ISO37)
Open Time:	Up to 15 min (20°C/50% R.H.)	Tear Propagation:	Approximately 16N/mm (DIN 5315/ISO34)
Tensile Stress at Break:	Approximately 2.6 Mpa (DIN 53504/ISO37)	E-Modulus (10%):	Approximately 3.3 Mpa (DIN 53504/ISO37)
Elongation at Break:	Approximately 250% (DIN 53504/ISO37)	Solvent Percentage:	0%
Shear Stress:	Approximately 2.5 Mpa (DIN 53283/ ASTM D1002)	Application Temperature:	+5°C to +35°C
Isocyanate Percentage:	0%	UV-and Weather Resistance:	Very Good
Temperature Resistance:	-40°C to +120°C	Chemical Resistance:	Good
Temperature Resistance:	+180°C (max ½ hr.)		

Storage & Shelf Life

Store in a cool, dry place, out of direct sunlight. Storage areas must be well ventilated and comply with Local, State and Federal regulations. For maximum shelf life, store between 5° and 20°C.

Shelf life is up to 12 months when stored in original, unopened containers, under the above conditions.

Health & Safety

Obtain and read Material Safety Data Sheet, for details on Health and Safety information, prior to use of the material.

Packaging

Simson ISR 70-03 is available in 290 ml cartridges and 600 ml sausages.

Product Details

Item Number	Size	Colour	Pack Quantity
273538	290ml Cartridge	Black	12
366196	600ml Sausage	Black	20
283614	290ml Cartridge	Grey	12
326224	600ml Sausage	Grey	20
273503	290ml Cartridge	White	12
320404	600ml Sausage	White	20



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Head Office: Bostik Australia Pty Ltd, 51-71 High Street, Thomastown Vic 3074
A.B.N. 79 003 893 838
Phone: (03) 9279 9333 Fax: (03) 9261 4744
Phone Industrial: Toll free 1300 560 799

Branches: Sydney: 21 Tattersall Road, Kings Park NSW 2148
Brisbane: Building 6, 2404 Logan Road, Eight Mile Plains Qld 4113
Perth: 12 Thorpe Close, Welshpool WA 6016

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Quality
ISO 9001



Quality endorsed ISO9001 (Thomastown site)
TS16949 (Automotive).



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