



# Technical Data Sheet

## Simson ISR 70-05

### Description

ISR 70-05 is a Silyl Modified Polymer (SMP) based adhesive with a high tensile strength and is suitable for making elastic constructive joints. ISR 70-05 can also be used as a sealant. ISR 70-05 has been tested and certified to the International Maritime Organisation Fire Test Procedures for Surface Flammability, resolution A.687 and is approved for bonding deck materials onto steel or aluminium.

### 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  $-40^{\circ}\text{C}$  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 e.g. bus, caravan, train and yacht construction.
- Bonding of roofs on busses, trains, trucks.
- Bonding of corner profiles of aluminium or polyester on trailers.
- Bonding of polyester parts on metal frames.
- Bonding of floor systems.

### Application Instructions

#### Surface Preparation

In general ISR 70-05 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 70-05

ISR 70-05 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 70-05 should be tooled or smoothed within 10 minutes (at  $20^{\circ}\text{C}/50\%$  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 cause loss of adhesion.

In bonding applications, the substrates must be assembled within 15 minutes (at  $20^{\circ}\text{C}/50\%$  R.H.) after applying ISR 70-05.

In general, an adhesive thickness of 2 mm is recommended.

At a temperature of  $20^{\circ}\text{C}$  and a relative humidity of 50%, ISR 70-05 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 70-05.





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### 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).

### Properties

<b>Colour/s:</b>	Black, Grey and White	<b>Curing Speed after 24hrs</b>	approx. 3 mm (20°C/50% R.H.)
<b>Basic Material:</b>	Silyl Modified Polymer (SMP)	<b>Shore A Hardness</b>	approx. 60 (DIN 53505)
<b>Specific gravity:</b>	Approx. 1.5g/ml	<b>Volume Change</b>	<3% (DIN 52451)
<b>Curing Method:</b>	Moisture	<b>Green Strength</b>	approx. 500 Pa (Physical Rheometer MC 100)
<b>Skin Forming Time:</b>	approx. 10 minutes (20°C/50% R.H.)	<b>Tensile Stress (100%)</b>	Approx. 2.7 Mpa (DIN 53504/ISO37)
<b>Open Time</b>	Up to 15 min (20°C/50% R.H.)	<b>Tear Propagation</b>	approx. 17N/mm (DIN 5315/ISO34)
<b>Tensile Stress at Break</b>	approx. 3.5 Mpa (DIN 53504/ISO37)	<b>E-Modulus (10%)</b>	Approx. 4.8 Mpa (DIN 53504/ISO37)
<b>Elongation at Break</b>	approx. 200% (DIN 53504/ISO37)	<b>Solvent Percentage</b>	0%
<b>Shear Stress</b>	approx. 3.0 Mpa (DIN 53283/ ASTM D1002)	<b>Application Temperature</b>	+5°C to +35°C
<b>Isocyanate Percentage</b>	0%	<b>UV-and Weather Resistance</b>	Very Good
<b>Temperature Resistance</b>	-40°C to +120°C	<b>Chemical Resistance</b>	Good

### 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
273563	290ml Cartridge	Black	12
320412	600ml Sausage	Black	20
279242	290ml Cartridge	Grey	12
273546	290ml Cartridge	White	12
320420	600ml Sausage	White	20



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