

# SIMSON ISR 70-03

## ELASTIC ADHESIVE/SEALANT

16 November 2017

### YOUR SMART ADVANTAGES

- 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°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.
- Pick resistant – prison cells, schools & public amenities
- Not Suitable for construction movement joints
- Suitable as sealant/adhesive for small gaps (2mm) eg Light fixtures to concrete

### DESCRIPTION

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

### 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.

### PRODUCT CHARACTERISTICS

|                |                              |
|----------------|------------------------------|
| Colour         | Black, Grey and White        |
| Basic Material | Silyl Modified Polymer (SMP) |

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Specific Gravity              | Approx. 1.4g/ml                                     |
| Curing Method                 | Moisture                                            |
| Skin Forming Time             | approx. 10 min<br>(20°C/50% R.H.)                   |
| Open Time                     | Up to 15 min. (20°C/50% R.H.)                       |
| Tensile Stress at Break       | approx. 2.6 MPa<br>(DIN 53504/ISO37)                |
| Elongation at Break           | approx. 250%<br>(DIN 53504/ISO37)                   |
| Shear Stress                  | approx. 2.5 MPa<br>(DIN 53283/ ASTM D1002)          |
| Isocyanate Percentage         | 0%                                                  |
| Temperature Resistance        | -40°C to +120°C                                     |
| Temperature Resistance        | +180°C (max ½ hr.)                                  |
| Curing Speed after 24 hrs     | approx. 3 mm<br>(20°C/50% R.H.)                     |
| Shore A Hardness              | approx. 55 (DIN 53505)                              |
| Volume Change                 | <3% (DIN 52451)                                     |
| Electrical Volume Resistivity | >10 <sup>11</sup> Ωcm (DIN 53428)                   |
| Green Strength                | Approximately 300 Pa<br>(Physical Rheometer MC 100) |
| Tensile Stress (100%)         | Approx. 1.7 MPa<br>(DIN 53504/ISO37)                |
| Tear Propagation              | approx. 16N/mm<br>(DIN 5315/ISO34)                  |
| E-Modulus (10%)               | Approx. 3.3 MPa<br>(DIN 53504/ISO37)                |
| Solvent Percentage            | 0%                                                  |

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### PRODUCT CHARACTERISTICS Cont.

Application Temperature +5°C to +35°C

UV-and Weather Resistance Very Good

Chemical Resistance Good

#### Product code

290ml Cartridge/12 per 30132121

Cartridge - White

600ml Sausage /12 per 30132131

Sausage - White

290ml Cartridge/12 per 30132150

Cartridge - Grey

600ml Sausage /12 per 30132160

Sausage - Grey

290ml Cartridge/12 per 30132171

Cartridge - Black

600ml Sausage /12 per 30132180

Sausage - Black

### APPLICATION INSTRUCTION

#### Surface Preparation

In general **Bostik Simson 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 Bostik Simson ISR 70-03** can easily be extruded with a hand or air pressure gun at temperatures between +5°C and +35°C. In sealing applications **Bostik Simson ISR 70-03** should be tooled or smoothed within 10 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 cause loss of adhesion.

In bonding applications, the substrates must be assembled within 15 minutes (at 20°C/50% R.H.) after applying **Bostik Simson 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%, **Bostik Simson 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 **Bostik Simson 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 (Isopropyl alcohol).

### 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

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

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## PRECAUTIONS IN USE

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit [www.bostik.com/au](http://www.bostik.com/au) for copies.

**For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.**



This datasheet is for the general help of users. It is provided in good faith. The data is current and accurate to the best of our knowledge. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. Users should carry out tests to decide the product's suitability for purpose. This data sheet and the properties of the product may change without notice. Users, suppliers and retailers should check that the data sheets they have are the latest. To the maximum extent permitted by law, Bostik disclaims all warranties in relation to manufacture and use of the product. Bostik is not liable for representations made by users, suppliers or retailers about the product. Bostik is not liable for any loss or damage resulting from incorrect, careless, or negligent use or storage of the product, including use of out of date product. Any liability arising from use of the product is limited to the replacement or purchase price of the product. Bostik does not exclude rights and remedies that cannot be excluded by legislation, for example under the Australian Consumer Law (ACL). Sale of the product by Bostik is subject to the Bostik Australia Proprietary Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit [www.bostik.com/au](http://www.bostik.com/au)