



SIMSON ISR 70-05 AP

ELASTIC ADHESIVE/SEALANT

16 November 2017

YOUR SMART ADVANTAGES

- **Bostik Simson ISR 70-05 AP** combines the advantages of desired properties of structural sealants including polyurethanes. **Bostik Simson ISR 70-05 AP** is not reliant on the primed system to provide a cross-linking covalent bond (less changes of applicator error).
- **Bostik Simson 70-05 AP** adheres well without black glass primer on glass and no UV resistant primer is needed when the glass adhesive interface is adequately UV-protected by a ceramic coating.
- 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

90 MINUTES DRIVE AWAY IN VEHICLES WITH DUAL AIRBAGS*

Meets U.S. Safety standards

FMVSS212 Windscreen Retention Test

FMVSS208 Occupant Crash Protection test

*At 23°C and 50% relative humidity

DESCRIPTION

Bostik Simson ISR 70-05 AP is a Silyl Modified Polymer (SMP) based adhesive with a high tensile strength and is suitable for making elastic constructive joints. **Bostik Simson ISR 70-05 AP** can also be used as a sealant.

Bostik Simson ISR 70-05 AP 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.

Bostik Simson ISR 70-05 AP may also be used for the efficient bonding of windscreens in the Auto Aftermarket as well as in OEM, Bus, Coach & Train building

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.

Automotive windscreen replacement.

PRODUCT CHARACTERISTICS

Colour	Black, Grey and White
Basic Material	Silyl Modified Polymer (SMP)
Specific Gravity	Approx. 1.5
Curing Method	Moisture
Skin Forming Time	approx. 15 min (20°C/50% R.H.)
Open Time	Up to 15 min. (20°C/50% R.H.)
Tensile Stress at Break	approx. 2.9 MPa (DIN 53504/ISO37)
Elongation at Break	approx. 250% (DIN 53504/ISO37)
Shear Stress	approx. 2.4 MPa (DIN 53283/ ASTM D1002)
Isocyanate Percentage	0%
Curing Speed after 24hrs	approx. 3 mm (20°C/50% R.H.)
Shore A Hardness	approx. 60 (DIN 53505)

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PRODUCT CHARACTERISTICS Cont.

Volume Change	<3% (DIN 52451)
Tear Propagation	approx. 16N/mm (DIN 5315/ISO34)
Tensile Stress (100%)	Approx. 2.3 MPa (DIN 53504/ISO37)
Temperature Resistance	-40°C to +120°C
Solvent Percentage	0%
Application Temperature	+5°C to +35°C
UV-and Weather Resistance	Very Good
Chemical Resistance	Good

Product code

600ml Sausage/12 per Sausage – Black	30600973
600ml Sausage /12 per Sausage – Grey	30600972
600ml Sausage /12 per Sausage – White	30600971
600ml Sausage/12 per Sausage – SKF Black	30601169

APPLICATION INSTRUCTION

Surface Preparation

In general **Bostik Simson ISR 70-05 AP** 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 70-05 AP 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 70-05 AP** 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 70-05 AP**.

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 70-05 AP** 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 70-05 AP**.

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 in sausages and up to 18 months in cartridges 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 70-05 AP is available in 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.

BOSTIK HOTLINE

Layanan Bantuan +62 21 521 0404



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).