



## technical data sheet

# BOSTIK SIMSON ISR 70-08

## SMP Based Adhesive/Sealant

### DESCRIPTION

Bostik Simson ISR 70-08 is a high quality Silyl Modified Polymer (SMP) based Direct Glazing Adhesive especially developed for the rapid and efficient bonding of windscreens in the Auto Aftermarket as well as in OEM, Bus, Coach & Train building and other areas of the Transport market, especially where vehicles have to be released (or moved) shortly after installation.

### RECOMMENDED USES

- Bostik Simson ISR 70-08 is specially designed for the rapid replacement of windscreens.
- The use of Simson 70-08 makes the fastest safe drive away time possible:

## ONE HOUR DRIVE AWAY DUAL AIRBAGS

MEETS U.S. SAFETY STANDARDS  
FMVSS212 WINDSHIELD RETENTION TEST  
FMVSS208 OCCUPANT CRASH PROTECTION TEST

### FEATURES & ADVANTAGES SMP

- Bostik Simson ISR 70-08 combines the advantages of desired properties of structural sealants including polyurethanes. **Simson ISR 70-08 is not reliant on the primed system to provide a cross-linking covalent bond (less chances of applicator error).**
- Immediately after installation the product has a high Green Strength (a high internal strength), which results in a heavy paste with an extremely good slump resistance. Reaction starts with moisture and results in an irreversible vulcanized adhesive. The high green strength coupled to the high tack results in rapid bonding and makes the product very suitable for those applications where the vehicles have to be released (or moved) shortly after installation.
- Bostik Simson ISR 70-08 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.**
- Excellent UV resistance and ageing properties.
- Excellent temperature resistance, permanent elastic within temperatures from  $-40^{\circ}\text{C}$  till  $+120^{\circ}\text{C}$ .
- No odour
- Paintable
- Very low electrical conductivity. Suitable for use with window aeriels
- Prevents contact corrosion on aluminium substrates
- Non staining – less than 1% carbon black content
- Possible reduced or no clamping required

### TECHNICAL PROPERTIES

Basic Material	Silyl Modified Polymer (SMP)
Curing Method	Moisture
Specific Gravity	approx. 1.4g/ml
Skin Forming Time	approx. 10 - 15 min. ( $20^{\circ}\text{C}/50\%$ R.H.)
Open Time	<15 min. ( $20^{\circ}\text{C}/50\%$ R.H.)
Curing Speed after 24hrs	approx. 3 mm ( $20^{\circ}\text{C}/50\%$ R.H.)
Shore A Hardness	approx. 65 (DIN 53505)
Volume Change	<3% (DIN 52451)
Green Strength	approx. 1800 Pa (Physical Rheometer MC 100)
Electrical Volume Resistivity	$>10^{11}$ $\Omega\text{cm}$ (DIN 53428)
Tensile Stress (100%)	approx. 2.1 Mpa (DIN 53504/ISO37)
Tensile Stress at Break	approx. 2.9 Mpa (DIN 53504/ISO37)
Elongation at Break	approx. 225% (DIN 53504/ISO37)
Shear Stress	approx. 2.5 Mpa (DIN 53283/ ASTM D1002)
Tear Propagation	approx. 13N/mm (DIN 5315/ISO34)
E-Modulus (10%)	Approx. 4.3 Mpa (DIN 53504/ISO37)
Solvent Percentage	0%
Isocyanate Percentage	0%
Temperature Resistance	$-40^{\circ}\text{C}$ to $+120^{\circ}\text{C}$
Temperature Resistance	$+180^{\circ}\text{C}$ (max $\frac{1}{2}$ hr.)
Application Temperature	$+5^{\circ}\text{C}$ to $+35^{\circ}\text{C}$
UV-and Weather Resistance	Very good
Colour	Black

### PACKAGING

Simson ISR 70-08 is filled in 290 ml cartridges, 400 ml and 600 ml sausages.

### APPLICATION INSTRUCTIONS

#### A. Replacement Fixed Glass

##### I. Preparation of a Window with Black Ceramic Band

1. Ensure the surface of the glass is clean and dry, dust and grease free.
2. Cleaning of the ceramic coated layer can be done with Simson 'wash' Primer M (a one step treatment) or Isopropylalcohol (IPA).
3. Use clean, lint and colour free cotton cloth, wet it with **Simson Primer M or IPA.**

**Important Note:** Don't use Simson Primer M that has a milky appearance.

4. Ensure that Simson Primer M or IPA is applied onto the bond area **very thinly**.
5. Let dry for approximately 5 minutes before you continue with the application of the adhesive Simson ISR 70-08 (C).

## II. Preparation of a Window

### Without Black Ceramic Band

1. In case windscreen does not have a black ceramic band, apply Simson Primer G
2. Ensure the surface of the glass is clean and dry, dust and grease free. Use a clean, lint and colour free cotton cloth, wet it with **Bostik Autoseal Glass Cleaner/Activator**, rub the surface of the bond area leaving a very thin film (discard cotton cloth), then clean the surface with a clean, lint and colour free cotton cloth using a buffing action. Drying time of the film is 3-5 minutes.
3. **Important Note** : Don't use any cleaner/activator that has a milky appearance.
4. Shake Simson Primer G bottle thoroughly for at least 30 seconds.
5. Open bottle : **Important Note** – Don't use any primer that has gelled or separated.
6. Apply primer evenly in a continuous primer film with a clean dry dauber onto the prepared bond area surface.
7. Leave to dry for 5 minutes
8. The primed area must be covered by bostik **Simson ISR 70-08** adhesive within 24 hours. If it is not applied within 24 hours, reapply the **Simson Primer G** as per above instruction 2.

## B. Preparation of the Body

### Preparation of the freshly painted metal-flange

1. Ensure the surface of the freshly painted metal-flange is clean, dry, dust and grease free.
2. Use clean, lint and colour free cotton cloth, wet it with **Simson Primer M**, and rub the surface of the freshly painted flange, leaving a very thin film.
3. Let dry for approximately 5 minutes.

### Repair of damaged paint layer

1. Ensure the surface of the damaged painted metal-flange is clean, dry, dust and grease free.
2. Shake **Simson Primer G** Bottle thoroughly for at least 30 seconds, open bottle and apply **Simson Primer G** onto damaged area with a dauber.
3. Ensure not to prime the freshly cut adhesive!

4. Leave to dry for 5 minutes before applying the adhesive **Simson ISR 70-08** or before installing the windscreen with adhesive

## C. Application of Bostik Simson ISR 70-08

Extrude a minimum 9x9 mm triangular bead of Simson 70-08 onto the bond area (between the dam of closed cell double sided polyethylene foam tape and the **edge of window** or the metal flange/freshly cut out old adhesive).

After extruding the Simson 70-08, the window must be put into place as soon as possible to avoid any contamination but must be installed within 15 minutes.

## D. 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).

## E. End of Operation Instruction

**Note:** For reasons of safe working practices, Bostik recommends to wear protective gloves for the entire operation. Please ensure all products are applied in a well ventilated area. Refer to specific technical and material safety data sheets for further information.

## PRECAUTION

No specific precaution required. Consult safety data sheet.

## P.A.T.S (Pretested Adhesion To Substrate) Programme

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

## STORAGE/SHELF LIFE

**Bostik Simson ISR 70-08** shelf life for sausages 12 months in closed (unopened) packaging in a dry place at temperature between 5°C and 30°C (shelf life cartridges 18 months).

## BOSTIK SIMSON ISR 70-08

ITEM NO.	STOCK SIZE	Unit per Ctn
266574	290ml cartridge	12
291080	600ml Sausage	20
310166	400 ml Sausage	20

*The representations and recommendations regarding the products are based on tests, which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik Australia Pty Ltd be liable to anyone except for replacement of the products or refund of the purchase price.*

**ALL SALES ARE EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE OF BOSTIK AUSTRALIA PTY LTD**



**BOSTIK AUSTRALIA PTY LTD**  
 Phone: +61-3-9279 9333  
 Fax: +61-3-9279 9240

**BOSTIK NZ LIMITED**  
 Phone: +64-4-567 5119  
 Fax: +64-4-567-5412

**BOSTIK SINGAPORE PTE LTD**  
 Phone: +65-6863 4088  
 Fax: +65-6863 4077

**BOSTIK (MALAYSIA) SDN BHD**  
 Phone: +606 764 3246  
 Fax: +606 764 3248

**SYDNEY**  
 Phone: 02 8825 3488  
 Fax: 02 8825 3411

**ADELAIDE**  
 Phone: 08 8244 0511  
 Fax: 08 8244 0522

**PERTH**  
 Phone: 08 9258 6218  
 Fax: 08 9258 7687

**BRISBANE**  
 Phone: 07 3260 2206  
 Fax: 07 3260 2123

**(ABN 79 003 893 838)**

## FOR FURTHER INFORMATION

Product:	Bostik Simson ISR 70-08
Issue Date:	November 2007
Issue No:	5
Division:	Industrial
Total Pages:	2