

SIMSON ISR 70-03

MOISTURE CURING ADHESIVE/SEALANT

SIMSON ISR 70-03 is one of a range of high performance quality adhesives and sealants based on MS polymer technology especially developed for automotive, coach building and industrial applications.

SIMSON ISR 70-03 is extremely durable with excellent UV and weather resistance it exhibits permanent elasticity from -40 to $+100^{\circ}\text{C}$, has a high degree of slump resistance for filling large gaps and has a short term temperature resistance (up to 1 hour) of 180°C .

SIMSON ISR 70-03 has very good paint compatibility with most common industrial alkyd resin lacquers and paints or acrylic dispersion paints it can be over painted after skin forming (wet on wet) without effecting curing speed.

RECOMMENDED USE

SIMSON ISR 70-03 is a multi purpose, moisture curing adhesive/sealant, suitable for applications where relatively large amounts of joint movement must be accommodated, fairly high loads must be withstood and an effective seal must be maintained.

SIMSON ISR 70-03 is suitable for bonding a wide range of substrates including metals, painted surfaces, uPVC, GRP, polycarbonate, polyester, glazed surfaces, glass and rubber

SIMSON IRS 70-30 is not recommended for use on polyethylene, PTFE and polypropylene

BONDING INSTRUCTIONS

SURFACE PREPARATION

- All surfaces must be clean, dry and free from grease, dust and any loose material.
- If cleaning or degreasing is necessary it should be carried out with a non- aggressive solvent.
- If bonding untreated metals and polyester, the bond can be improved by the use of **SIMSON PRIMER M** as a wash primer.
- If the bonded joints are to be subjected frequently to water, the use of **SIMSON PRIMER M** is recommended for metals.

APPLICATION

- Application temperature 5 to 35°C .
- **SIMSON ISR 70-03** can be easily applied by means of a hand or pneumatic cartridge gun.
- As the product forms a skin quickly, tooling is necessary within 30 minutes.
- Uncured material can be removed with **EVO-STIK CLEANER 6**.

This Product Data Sheet covers just one of a large range of products supplied by Bostik Limited. Full information on these products and advice on application is freely available from our fully trained staff throughout the country. In addition, specialist technical advice is available from our Technical Services Department. This Product Data Sheet supersedes all previous technical information on this product, and users of it are cautioned to ensure that it is the current issue. Destroy all previous Product Data Sheets, and if any doubt, contact Bostik Limited, quoting the code number in the top right hand corner on the front of this document. This leaflet is for general guidance only and may contain inappropriate information under particular conditions of use. The company cannot accept any responsibility for loss or damage that may result from the use of this information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm the suitability of this product by their own tests.

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TYPICAL CHARACTERISTICS

Physical Form:	Viscous paste
Colour:	White, Black or Grey
Chemical Type:	MS polymer
Specific Gravity	Approx. 1.4
Flow resistance (25mm 20°C)	Approx. 2mm
Penetration (0.1mm/20°C)	Approx. 135
Shore A Hardness	Approx. 55
Tensile strength at 100% elongation (DIN 53504)	Approx. 1.7 MPa (N/mm ²)
Tensile strength at break (DIN 53504/ISO 37)	Approx. 2.7 MPa (N/mm ²)
Elongation at break (DIN 53504/ISO 37)	Approx. 270%
Volume change after curing (DIN 53504/ISO 37)	Approx. Minus 3
Skin forming (20°C & 50% R.H.)	Approx. 20 minutes
Tack free time (20°C & 50% R.H.)	Approx. 4 hours
Curing time (20°C & 50% r.h.)	3 - 4 mm per 24 hours
Maximum total movement accommodation	Approx. 20%
In service temperature resistance	-40 to +100°C
Short term temperature resistance (up to 1 hour)	180°C

PACKAGING

For current pack sizes please contact the Customer service Department

STORAGE

Store in original containers in a dry place in the temperature range 5 - 30°C.

SHELF LIFE

At least 12 months stored in original containers under the above storage conditions.

MATERIAL SAFETY DATA

For further information refer to the relevant Health and Safety Data Sheet.

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