

PRODUCT DATA

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Code: 20051/24

SIMSON ISR 70-03

Simson ISR 70-03 is one of a range of high performance quality adhesives and sealants based on SMP (Silyl Modified Polymer) technology, especially developed for automotive, coachbuilding and industrial applications.

Simson ISR 70-03 is a multi-purpose, permanently elastic and extremely durable moisture-curing adhesive / sealant, suitable for making elastic constructive joints in applications where relatively large amounts of joint movement must be accommodated, fairly high loads must be withstood and an effective seal must be maintained. Typical applications include bonding of roofs on buses, trains and trucks, bonding of aluminium or polyester corner profiles on trailers, bonding of floor systems, bonding and sealing of sunroof systems and sealing welded seams.

Features

- Permanently elastic from minus 40°C to plus 120°C
- Application temperature between 5°C and 35°C
- High degree of slump resistance for filling large gaps
- Short term temperature resistance (up to 30 mins) of up to 180°C
- Neutral, virtually odourless and fast curing
- Totally solvent-, isocyanate- and PVC-free
- Can be overpainted with most industrial alkyd resin lacquers and paints or acrylic dispersion paints
- Extremely durable with excellent UV and weather resistance
- Good ageing properties
- Paintable on skinforming (wet on wet); this will not affect curing speed
- Good adhesion to most substrates without the use of primer

Product Characteristics

Colour	White, Grey, Black
Specific Gravity	1.4
Packaging	Carton of 12x290ml cartridges 600ml sachets (subject to usage) Other packaging on request
Shelf life/storage	12 months (18 months for cartridges) from date of manufacture, when stored in original, sealed, unopened containers in a dry place within the temperature range +5°C to +30°C

Typical Performance Data (approx.)

Shore A hardness (DIN 53505)	Approx. 55
Tensile strength at 100% elongation (DIN 53504/iso 37)	Approx. 1.7 MPa (N/mm ²)

Tensile strength at break (DIN 53504/ISO 37) Approx. 2.6 MPa (N/mm²)

Elongation at break (DIN 53504/ISO 37) Approx. 250%

Shear Stress Alu-Alu; adh thickness 2mm; test speed 50mm/min (DIN 53283/ASTM D1002) Approx. 2.5 MPa

Tear Propagation Type C; test speed 500mm/min (DIN 53515/ISO 34) Approx. 16 N/mm

Volume change after curing (DIN 52451) Less than 3%

Skinforming at 20°C and 50% R.H. Approx. 10 minutes

Open time at 20°C and 50% R.H. Less than 15 minutes

Curing speed at 20°C and 50% R.H. Approx. 3mm after 24 hours

In-service Temperature Resistance Minus 40°C to plus 120°C

Short term Temperature Resistance (up to 30 mins) 180°C

E-modulus (10%) (DIN 53504/ISO 37) Approx. 3.3 MPa

Directions for use

IMPORTANT

Before embarking on any work involving Simson ISR 70-03, the separate Safety Data Sheet should be carefully studied by those carrying out the work.

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Preparation

Simson ISR 70-03 has good adhesion properties without the use of primer on most clean, dry, dust- and grease-free substrates, such as 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 to untreated polyethylene, polypropylene and Teflon. In cases where, due to great thermal or physical loads, especially under wet conditions, high adhesion demands are required, the use of Simson Primer M is recommended. Simson Primer M is a 'wash primer' that 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 advice on specific applications, consult our Automotive Technical Service Department.

Application

Simson ISR 70-03 can be easily applied by means of a hand- or air-pressure gun. As the product forms a skin quickly, Simson ISR 70-03 should be tooled or smoothed within 10 minutes (at 20°C/50%RH) with a spatula or putty knife, occasionally moistened with a soap solution. Avoid soap solution penetrating between joint sides and sealant, as this leads to loss of adhesion. In bonding applications, the substrates have to be assembled within 15 minutes (at 20°C/50%RH) after application of Simson ISR 70-03. In general, an adhesive thickness of 2mm is recommended. Uncured material can be easily removed with Evo-Stik Cleaner 9.

Overpainting

At 20°C/50% RH, Simson ISR 70-03 can be painted with most industrial paints 15 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours of application of Simson ISR 70-03.

Precautions in Use

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate health and safety data sheet for Simson ISR 70-03.

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