SIMSON ISR 70-02 AP

SILYL MODIFIED POLYMER

KEY FEATURES

- Multi-purpose adhesive & sealant
- Durable and reliable bonds
- Safe for workers and the environment

DESCRIPTION

Simson ISR 70-02 AP is a high quality elastic adhesive/sealant based on Silyl Modified Polymers (SMP). It is suitable for use as an adhesive or sealant on structures in industrial applications.

Simson ISR 70-02 AP has excellent resistance to UV, weather and temperature, and exhibits excellent adhesion performance on a wide variety of substrates (minimal or no pre-treatment necessary) it can be overpainted with most common industrial paints.

Simson ISR 70-02 AP is free from solvents, isocyanates and silicone making it safer for workers and the environment

Simson ISR 70-02 AP used with Dual SMP® technology, guarantees an increased/controlled cure speed and reliability in the production process, extending application possibilities.

APPLICATIONS

- Elastic bonding and sealing in e.g. bus, caravan, train, and truck construction
- Bonding and sealing of sunroof systems
- Bonding of roofs on buses, trains and trucks
- Bonding of corner profiles of aluminium or polyester on trailers
- Bonding of polyester parts on metal frames
- Bonding of flooring systems
- Sealing welded seams

FEATURES

- Solvent, isocyanate and PVC free
- Excellent UV resistance and ageing properties
- In general good adhesion on many substrates without the use of a primer
- Elastic within the temperature range -30°C to +70°C
- Neutral, odourless and fast curing
- Paint compatible with most industrial paint and lacquer systems, both alkyd resin and dispersion (due to the numerous different types of industrial paint a compatibility test is recommended before use, please consult with the paint supplier).

TECHNICAL DATA

CHARACTERISTIC		VALUE
Basic material		Silyl Modified Polymer (SMP)
Curing method		Moisture
Specific gravity	**[g/ml]**	ca. 1.4
Skin forming time 23°C/50% R.H.	**[min]**	ca. 60
Open time 23°C/50% R.H.	**[min]**	< 60
Curing speed after 24hrs 23°C/50% R.H.	**[mm]**	ca. 3
Shore A hardness		ca. 45
Volume change	**[%]**	< 3
Tensile stress (100%) ISO 37 (dumbbells)	**[MPa]**	ca. 1.4
Tensile stress at break ISO 37 (dumbbells)	**[MPa]**	ca. 2.0
Elongation at break ISO 37 (dumbbells)	**[%]**	ca. 250
E-Modulus (10%) ISO 37 (dumbbells)	**[MPa]**	ca. 3.0
Shear stress ISO 4587	**[MPa]**	ca. 1.0
Elastic Recovery ISO 7389	**[%]**	ca. 70
Solvent percentage	**[%]**	0
Isocyanate percentage	**[%]**	0
Temperature resistance	**[°C]**	-30 to +70
Application temperature	**[°C]**	+5 to +40
UV and weather resistance		Excellent
Colours (standard)		White
Packaging		290ml cartridges 400ml & 600 ml sausages

ADHESION

In general, ISR 70-02 AP adheres well without primer on clean, dry, dust and grease free substrates. Due to the wide variety of substrates available Bostik recommends adhesion testing prior to use (please contact your local representative for more information)

No adhesion on untreated polyethylene, polypropylene and Teflon.

In instances where, due to great thermal or physical loads and especially under wet conditions where high adhesion demands are required, the use of Simson Prep CS or Prep M is recommended. Prep CS and Prep M degrease and prepare the surface of the substrate in one-step.

On plain, untreated wooden surfaces and other porous substrates, Prep P is recommended.

For more details on Prep CS, Prep M and Prep P consult the specific Technical Data Sheets.

For other substrates and additional information, consult Bostik.

METHOD OF USE

Simson ISR 70-02 AP can easily be extruded with a hand or air pressure gun at temperatures between +5°C and +35°C.

In bonding applications, the substrates need to be assembled within 60 minutes (at 23°C/50% R.H.) of applying ISR 70-02 AP. In general, a minimum adhesive thickness of 2 mm is recommended.

Simson ISR 70-02 AP should be tooled or smoothed within 60 minutes (at 23°C/50% R.H.) using a spatula or putty knife, occasionally moistened with a soapsolution (avoid soaps containing limonene as these can discolour the sealant). Avoid soap solution penetrating between joint sides and adhesive, as this will cause loss of adhesion.

Cleaning tools or removing uncured residue of ISR 70-02 AP can be done with a clean colourless cloth, wetted with Simson Liquid 1. It is recommended to check for possible attack of the substrate by Liquid 1 before use.

STORAGE STABILITY

ISR 70-02 AP can be stored for up to 18 months in cartridges and 12months in sausages, in original, unopened containers in a dry place at temperatures between +5°C and +30°C.

FURTHER INFORMATION

The following publication is available on request:

- Material Safety Data Sheets (MSDS).

The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and the equipment used for application. Any change in any of these variables can affect the product's performance. It is the buyer's obligation, prior to using the product, to test the suitability of the product for an intended use under the conditions that will exist at the time of the intended use. Bostik does not warrant the product's suitability for any particular application. The product is sold pursuant to Bostik's Terms and Conditions of Sale that accompanies the product at the time of sale. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

SMART HELP

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