

SIMSON ISR 70-08 AP

SILYL MODIFIED POLYMER

SMART ADVANTAGES

- Excellent green strength
- Primerless adhesion
- Safe for workers and environment

DESCRIPTION

Simson ISR 70-08 AP is an excellent quality elastic adhesive based on Silyl Modified Polymers (SMP). It is suitable for bonding windows (in e.g. buses and trains) or other industrial applications which require high green strength (initial tack) to avoid or reduce clamping times. Simson ISR 70-08 AP can also be used for sealing applications. Simson ISR 70-08 AP is tested according to DIN6701, has excellent resistance to UV, weather and temperature and is free of solvents, isocyanates and silicone. It exhibits excellent adhesion performance on a wide variety of substrates (minimal or no pre-treatment necessary) and can be over-painted with common industrial paints.

FEATURES

- Simson ISR 70-08 AP combines the advantages of a tape with the advantages of a reactive system. Immediately after installation the product has a high initial strength, which results in a very heavy paste with an extremely good slump resistance. Reaction starts with moisture and results in an irreversible cured adhesive. The high green strength coupled to the high tack makes the product very suitable for those applications especially where immediately or shortly after installation objects have to be moved during the manufacturing process
- Simson ISR 70-08 AP adheres well without primer on glass and no UV blocking primer is needed when the glass-adhesive interface is 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
- Elastic within temperatures from -40°C to +110°C
- Neutral and odourless curing
- Low volume shrinkage
- Low electrical conductivity

TECHNICAL DATA

CHARACTERISTIC	VALUE
Basic material	Silyl Modified Polymer (SMP)
Curing method	Moisture
Specific gravity [g/ml]	ca. 1.5
Skin forming time 20°C/50% R.H. [min]	ca. 15
Open time 20°C/50% R.H. [min]	< 15
Curing speed after 24 hrs 20°C/50% R.H. [mm]	ca. 3
Shore A hardness DIN 53505	ca. 57
Volume change DIN 52451 [%]	< 3
Electrical volume resistivity DIN 53482 [Ω.cm]	> 10 ¹¹
Tensile stress (100%) DIN 53504/ISO 37 [MPa]	ca. 2.3
Tensile stress at break DIN 53504/ISO 37 [MPa]	ca. 2.7
Elongation at break DIN 53504/ISO 37 [%]	ca. 180
Shear stress * DIN 53283/ASTM D1002 [MPa]	ca. 2.4
Tear propagation ** DIN 53515/ISO 34 [N/mm]	ca. 16
E-Modulus (10%) DIN 53504/ISO 37 [MPa]	ca. 5.5
Solvent percentage [%]	0
Isocyanate percentage [%]	0
Glass transition (Tg) [°C]	- 59
Temperature resistance *** [°C]	- 40 till + 110
Application temperature [°C]	+ 5 till + 35
UV- and weather resistance	Very good
Colour	Black and white
Packaging	290 ml cartridges, 600 ml sausages

* Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.

** Type C, test speed 500 mm/min.

*** For advice about long exposure to higher temperatures consult Bostik.

ADHESION

In general, Simson ISR 70-08 AP adheres well without primer on clean, dry, dust- and grease free substrates. No adhesion on untreated polyethylene, polypropylene and teflon. Cleaning of the ceramic coated layer as well as many closed surfaces, like aluminium, coated steel, polyester (GRP) can be done with Simson Cleaner I. In those cases where due, to great thermal or physical loads and especially under wet conditions, high adhesion demands are needed, the use of Simson Prep M is recommended. Prep M degreases and prepares the surface of the substrate in one step. For more details concerning Prep M consult the specific Technical Data Sheet

METHOD OF USE

Simson ISR 70-08 AP can easily be extruded with a hand or air pressure gun at temperatures between +5°C and +35°C. The speed of application can be improved by heating up to +70°C maximum. Within a few minutes after pre-treating the screen can be bonded. The screen has to be bonded within 15 minutes after applying Simson ISR 70-08 AP. When no ceramic coating is available or the ceramic coating doesn't supply sufficient UV-protection, Simson Prep G is needed after the screen has been cleaned with Simson Cleaner 14 or Cleaner I, unless a cover shields the glass-adhesive interface from UV-radiation. Cleaning tools or removing uncured residue of Simson ISR 70-08 AP can be done with a clean colourless cloth, wetted with Liquid 1. It is recommended to make a trial first to check possible attack of the substrate by these cleaners.

STORAGE STABILITY

Simson ISR 70-08 AP can be stored for 18 months in cartridges and 12 months in sausages, in an original, unopened container 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)
- Certificate.

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

Please contact your local representative

