

SIMSON ISR 70-11 AP

SILYL MODIFIED POLYMER

KEY FEATURES

- Long open time
- Cataplast resistant
- Safe for workers and the environment

DESCRIPTION

Simson ISR 70-11 AP is a high quality elastic adhesive with an extended open time based on Silyl Modified Polymers (SMP).

Simson ISR 70-11 AP is suitable for use in high demand applications in transportation or other industrial sectors where cataplast resistance is required. May also be used in sealing applications

Simson ISR 70-11 AP was specifically designed for use in hot/humid conditions (hence, it's long open time).

Due to its high green strength, ISR 70-11 AP will reduce or even eliminate clamping times.

Simson ISR 70-11 is free from solvents, isocyanates and silicone making it safer for workers and the environment

APPLICATIONS

- Window bonding in trains, trucks and buses

FEATURES

- Solvent, isocyanate and PVC free
- Very high green strength whilst maintaining good workability
- Very good UV resistance and ageing properties
- In general good adhesion without the use of a primer
- Elastic within the temperature range -40°C to +110°C
- Neutral, odourless and fast curing
- Low shrinkage during curing
- Low electrical conductivity
- Paint compatible with most industrial paint and lacquer systems, both alkyd resin and dispersion based (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
Open time 23°C/50% R.H.	[min]	ca. 30
Open time 35°C/80% R.H.	[min]	ca. 15
Curing speed after 24hrs 23°C/50% R.H.	[mm]	ca. 2.5
Shore A hardness		ca. 65
Volume change	[%]	ca. < 3
Tensile stress (100%) ISO 37 (dumbbells)	[MPa]	ca. 2.3
Tensile stress at break ISO 37 (dumbbells)	[MPa]	ca. 3.2
Elongation at break ISO 37 (dumbbells)	[%]	ca. 350
E-Modulus (10%) ISO 37 (dumbbells)	[MPa]	ca. 3.2
Shear Stress ISO 4587	[MPa]	ca. 2.0
Tear propagation ISO 34 (with knife)	[N/mm]	ca. 13
Solvent percentage	[%]	0
Isocyanate percentage	[%]	0
Temperature resistance	[°C]	-40 to +110
Application temperature	[°C]	+5 to +35
UV and weather resistance		Excellent
Colours (standard)		Black
Packaging		290ml cartridges, 400 & 600 ml sausages 20L drum

ADHESION

In general, ISR 70-11 AP adheres well without primer on clean, dry, dust and grease free substrates. Due to the 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.

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

For window bonding where a ceramic coating is present the surface should be thoroughly cleaned with Cleaner I prior to the application of ISR 70-11 AP. If there is no ceramic coating present or the coating provides insufficient protection from UV the use of Prep G (after cleaning with cleaner I) is required to provide adequate UV protection, for full details of the use of Prep G please refer to the relevant technical data sheet.

For other substrates and additional information, consult Bostik.

METHOD OF USE

SIMSON ISR 70-12 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 increased by heating up to a maximum 70°C.

For bonding applications, the substrates need to be assembled within 30 minutes (at 23°C/50% RH) of applying the ISR 70-11 AP, under hot humid conditions assembly should be carried out within 15 mins (at 35°/80% R.H.) of application.

Cleaning tools or removing uncured residue of ISR 70-11 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 70-012 can be stored for up to 18 months in cartridges and 12 months 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).

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SMART HELP

Please contact your local representative

