SIMSON ISR 70-07

SILYL MODIFIED POLYMER

KEY FEATURES

- Sprayable
- Durable and reliable bonds
- Safe for workers and the environment

DESCRIPTION

Simson ISR 70-07 is a low viscosity, sprayable sealant / adhesive based on Silyl Modified Polymers (SMP). Different spray structures can be obtained for sealing overlap and welded seams by the use of a specific spray gun.

Simson ISR 70-07 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 70-07 is free from solvents, isocyanates and silicone making it safer for workers and the environment

APPLICATIONS

- Sealing of welded, overlap and construction seams in automotive coach work
- Sealing overlap seams between PVC and metal
- Coating inside car wings, boots and bonnets, may also be used as an under boating coating
- As a repair material for all the above applications
- Sealing narrow seams and small holes
- As a coating to reduce vibration
- Bonding of floor covering

FEATURES

- Solvent, isocyanate and PVC free
- Very good UV resistance and ageing properties
- In general good adhesion on many substrates without the use of a primer
- Elastic within the temperature range -40°C to +100°C
- Neutral and fast curing
- 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).
- Contributes to corrosion protection: does not attack metals
- By adjusting the spray pressure and nozzle it is possible to obtain a variety of spray patterns from fine to dense

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. 2.5
Shore A hardness		ca. 40
Volume change	**[%]**	<4
Tensile stress (100%) ISO 37 (dumbbells)	**[MPa]**	ca. 1.0
Tensile stress at break ISO 37 (dumbbells)	**[MPa]**	ca. 1.3
Elongation at break ISO 37 (dumbbells)	**[%]**	ca. 200
E-Modulus (10%) ISO 37 (dumbbells)	**[MPa]**	ca. 1.0
Tear propagation ISO 34 (with knife)	**[N/mm]**	ca. 4
Solvent percentage	**[%]**	0
Isocyanate percentage	**[%]**	0
Temperature resistance	**[°C]**	-40 to +100
Application temperature	**[°C]**	+5 to +35
UV and weather resistance		Excellent
Colours (standard)		Grey, black
Packaging		290ml cartridges

ADHESION

In general, ISR 70-07 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.

On plain, untreated wooden surfaces and other porous substrates, Simson 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 70-07 can be sprayed by means of an appropriate air pressure gun with an adjustable nozzle at a distance of 30 – 40cm from the object. By adjusting the nozzle and air pressure, it is possible to obtain a variety of spray patterns. It is recommend carrying out a trial to find the combination of nozzle & pressure settings required to obtain the desired final result

In bonding applications, the substrates need to be assembled within 60 minutes (at 23°C/50% R.H.) of applying ISR 70-07.

Simson ISR 70-07 should be tooled or smoothed within 60 minutes (at 23°C/50% R.H.) using a spatula or putty knife, occasionally moistened with a soap solution (avoid soaps containing limonene as these can discolour the adhesive). 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- 07 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 70-07 can be stored for up to 18 months cartridges, 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)

SMART HELP

Please contact your local representative

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