



ISR 70-08 AP



The Simson Industrial Special Range is a range of high tech quality products especially developed for industrial applications.

Product

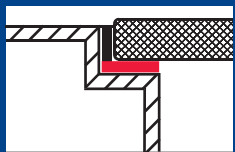
Simson ISR 70-08 AP is a high quality product based on Silyl Modified Polymer (SMP), especially developed for bonding windscreens. ISR 70-08 AP provides a rapid and efficient way to fasten many different materials for OEM, coach works, mobile units, etc., especially where immediately or shortly after installation objects have to be moved during the manufacturing process. ISR 70-08 AP conforms to FMVSS 212. ISR 70-08 AP used with the Dual SMP® technology guarantees an increased and controlled cure speed and reliability in the production process and extends the application possibilities.

Features

- 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 green strength* (a high internal strength), which results in a very heavy paste with an extremely good slump resistance. Reaction starts with moisture and results in an irreversible vulcanised adhesive. The high green strength coupled to the high tack makes the product very suitable for those applications where the parts have to be transported immediately or shortly after installation.
- 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.
- Permanent elastic within temperatures from -40°C till $+120^{\circ}\text{C}$.
- Neutral and odourless curing.
- Low volume shrinkage.
- Low electrical conductivity.

Method of use

ISR 70-08 AP can easily be extruded with a hand or air pressure gun at temperatures between $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$. The speed of application can be improved by heating up to $+70^{\circ}\text{C}$ maximum. For good adhesion, a clean, dry and grease free surface is necessary. 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. Within a few minutes after pretreating the screen can be bonded. The screen has to be bonded within 15 minutes after applying 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 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.





ISR 70-08 AP

Technical data

Basic material	Silyl Modified Polymer (SMP)	
Curing method	moisture	
Specific gravity	ca. 1.5 g/ml	
Skin forming time	ca. 15 min.	(20°C/50% R.H.)
Open time	< 15 min.	(20°C/50% R.H.)
Curing speed after 24 hrs	ca. 3 mm	(20°C/50% R.H.)
Shore A hardness	ca. 60	(DIN 53505)
Volume change	< 3%	(DIN 52451)
Electrical volume resistivity	> 10 ¹¹ Ωcm	(DIN 53482)
Tensile stress (100%)	ca. 2.3 MPa	(DIN 53504/ISO 37)
Tensile stress at break	ca. 2.9 MPa	(DIN 53504/ISO 37)
Elongation at break	ca. 250%	(DIN 53504/ISO 37)
Shear stress	ca. 2.4 MPa	(DIN 53283/ASTM D1002)
	<small>(Alu-Alu; adh. thickness 2mm, test speed 50 mm/min.)</small>	
Tear propagation	ca. 16 N/mm	(DIN 53515/ISO 34)
	<small>(Type C, test speed 500 mm/min.)</small>	
E-Modulus(10%)	ca. 5.5 MPa	(DIN 53504/ISO 37)
Solvent percentage	0%	
Isocyanate percentage	0%	
Temperature resistance	- 40°C till +120°C	
Temperature resistance	+ 180°C	(max. 1/2 hr)
Application temperature	+5°C till +35°C	
UV- and weather resistance	very good	
Colour	black and white	
Packaging	290 ml cartridges, 400 ml and 600 ml sausages, other packaging on request.	

Storage stability

ISR 70-08 AP can be stored for 12 months in an original, unopened container in a dry place at temperatures between +5°C and +30°C (cartridges 18 months).

Further information

The following publication is available on request:

- Material Safety Data Sheets (MSDS)

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The Adhesive Company

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