



# SIMSON MSR FT

## SILYL MODIFIED POLYMER

### SMART ADVANTAGES

- High grab adhesive
- Good UV resistance
- Long open time

### DESCRIPTION

Simson MSR Fast Tack is a permanently elastic, 1-component adhesive based on Silyl Modified Polymer (SMP) with a high green strength, an excellent UV stability and fresh and salt water resistance.

### APPLICATIONS

Bonding applications that require a high initial strength. Clamping can be reduced or left out completely, resulting in higher production speeds.

- Direct bonding of screens and windows (glass, acrylate (PMMA) and polycarbonate (PC)) in a nautical environment
- Bonding of push borders
- Bonding of deck hatches, portholes and bollards
- Bonding of sheets
- Bonding of deck fittings
- Bonding of deck/hull connections

### FEATURES

- High green strength (internal strength). Reduced or no clamping needed
- Solvent- and isocyanate free
- Very good UV-resistance and ageing properties
- In general good adhesion on several substrates without the use of a primer, e.g. ceramic coated glass, PMMA and PC
- Elastic in a temperature range of -40°C to +100°C.
- Neutral, odourless
- Paint compatible with most industrial paint or coated systems, (due to the large scale of different types of industrial paints a paint compatibility test is recommended)

### TECHNICAL DATA

CHARACTERISTIC		VALUE
<b>Basic material</b>		Silyl Modified Polymer (SMP)
<b>Curing method</b>		Moisture
<b>Specific gravity</b>	[g/ml]	ca. 1.5
<b>Open time</b> 20°C/50% R.H.	[min]	ca. 30
<b>Curing speed after 24 hrs</b> 20°C/50% R.H.	[mm]	ca. 3
<b>Shore A hardness</b> DIN 53505		ca. 60
<b>Volume change</b> DIN 52451	[%]	< 3
<b>Tensile stress (100%)</b> DIN 53504/ISO 37	[MPa]	ca. 2.3
<b>Tensile stress at break</b> DIN 53504/ISO 37	[MPa]	ca. 2.7
<b>Elongation at break</b> DIN 53504/ISO 37	[%]	ca. 180
<b>Shear stress *</b> DIN 53283/ASTM D1002	[MPa]	ca. 2.1
<b>Solvent content</b>	[%]	0
<b>Isocyanate content</b>	[%]	0
<b>Temperature resistance</b>	[°C]	- 40 to + 100
<b>Application temperature</b>	[°C]	+ 5 to + 35
<b>UV- and weather resistance</b>		Excellent
<b>Colours (standard)</b>		Black
<b>Packaging</b>		290 ml cartridges

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

## ADHESION

Without the use of a primer, Simson MSR Fast Tack shows good adhesion to dry, grease- and dust free surfaces of aluminium, zinc, galvanised steel, copper, brass, stainless steel, most (powder) coated metals, PVC, polyester (GRP), glass and lacquered wood. In case of extreme environmental conditions, like high temperature and/or humidity, the use of Simson Prep M is recommended on metal or other closed surface substrates. Prep M degreases and activates the surface in one step. In general, Simson MSR Fast Tack has a good adhesion to glass. A black UV blocking coating is not necessary if the glass has a sufficient ceramic edge coating that protects the adhesive-glass interface against UV radiation. If the glass has no ceramic edge coating and no cover/tape shielding the adhesive-glass interface from UV radiation, then Simson Prep G has to be used. This pre-treatment protects the bond against UV degradation.

## METHOD OF USE

Simson MSR Fast Tack can be extruded easily with a hand air pressure mastic gun between temperatures of +5°C and +35°C. Because of the high green strength clamping can be significantly reduced and in some cases even be completely eliminated. The substrates have to be assembled within 30 minutes (at 20°C/50% R.H.) after the application of Simson MSR Fast Tack. In general an adhesive thickness of 2 mm is recommended.

Removing uncured residues of MSR Fast Tack or cleaning tools can be done with a clean, colourless cloth, wetted with Simson Liquid 1 or Simson Cleaner E. It is recommended to make a trial first to check possible harmful effects of these cleaners on the substrate.

## STORAGE STABILITY

Simson MSR Fast Tack 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)

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



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