

# SIMSON MSR BC

## SILYL MODIFIED POLYMER

### SMART ADVANTAGES

- Easy tooling
- Excellent adhesion
- Long open time

### DESCRIPTION

Simson MSR Bedding Compound is a one component, permanently elastic adhesive/sealant, based on Silyl Modified Polymer (SMP). MSR Bedding Compound has been tested and certified to the International Maritime Organisation Fire Test Procedures for Surface Flammability, resolution A.653 and has been approved for use in wall, ceiling and floor applications.

### APPLICATIONS

Simson MSR Bedding Compound is use for bonding steel, aluminium, polyester with wooden decks and teak strokes or "artificial". Also suitable for bonding/sealing watertight plywood subdeck on a steel, aluminium, polyester or wooden subdeck.

### FEATURES

- Solvent- and isocyanate free
- Very good UV-resistance and ageing properties; long time resistance against fresh and salt water
- In general good adhesion on several substrates without using primer
- Elastic in a temperature range of -40°C to +100°C
- Neutral and odourless
- MSR Bedding Compound has sound- and vibration deadening properties
- MED Certified by Bureau Veritas: IMO Resolution A.653

### ADHESION

In general, Simson MSR Bedding Compound adheres well without primer on substrates dry and free of dirt and grease for example: aluminium, coated metal, wood and polyester (GRP). In cases of extreme environmental circumstances, like high thermal or mechanical loads, especially combined with high humidity levels, the use of Simson Prep P on wooden substrates and Simson Prep M on closed (metal) surfaces is recommended. For information on the application and consumption of this product products consult the application manual "bonding and calking of teak decks"

CHARACTERISTIC		VALUE
<b>Basic material</b>		Silyl Modified Polymer (SMP)
<b>Curing method</b>		Moisture
<b>Specific gravity</b>	[g/ml]	ca. 1.3
<b>Skin forming time</b> 20°C/50% R.H.	[min]	ca. 25
<b>Open time</b> 20°C/50% R.H.	[min]	< 45
<b>Curing speed after 24 hrs</b> 20°C/50% R.H.	[mm]	ca. 2
<b>Shore A hardness</b> DIN 53505		ca. 32
<b>Volume change</b> DIN 52451	[%]	< 3
<b>Green strength *</b> Physica Rheometer MC100	[Pa]	ca. 75 *
<b>Tensile stress (100%)</b> DIN 53504/ISO 37	[MPa]	ca. 1.0
<b>Tensile stress at break</b> DIN 53504/ISO 37	[MPa]	ca. 1.9
<b>Elongation at break</b> DIN 53504/ISO 37	[%]	ca. 300
<b>Shear stress **</b> DIN 53283/ASTM D1002	[MPa]	ca. 1.8
<b>Tear propagation ***</b> DIN 53515/ISO 34	[N/mm]	ca. 10
<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, light grey, white and teak brown
<b>Packaging</b>		290 ml cartridges, 600 ml sausages

\* Max. load which can be applied per m<sup>2</sup> uncured adhesive without sagging

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

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

### TECHNICAL DATA

## METHOD OF USE

For specific application instructions consult the separate instruction brochure "Application manual for bonding and caulking of teak decks". Simson MSR Bedding Compound can be extruded easily with a hand- or air pressure mastic gun and can be easily spread with a trowel. Removing uncured residues of MSR Bedding Compound 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.

In sealing applications MSR Bedding Compound should be tooled or smoothed within 25 minutes; in bonding applications the substrates have to be assembled within 45 minutes (at 20°C/50%R.H.). For an optimum use of the high deformability of MSR Bedding Compound a minimum thickness of 2 mm for the adhesive layer is recommended.

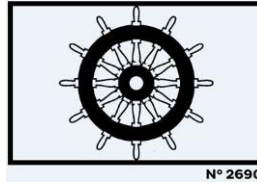
## STORAGE STABILITY

Simson MSR Bedding Compound 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 publications are available on request:

- Material Safety Data Sheets (MSDS)
- Certificates



This product has been tested and certified to the International Maritime Organisation (IMO) Fire Test Procedures for surface flammability. Not only the fire retarding properties are excellent, but also the production quality is ensured and regularly audited by Bureau Veritas, which guarantees the constant quality Bostik stands for.

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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