



ADHESIVES AND SEALANTS



MSR Bedding Compound

The Simson Marine Special Range is a range of products especially developed for nautical applications.

Product

MSR Bedding Compound is a one component, permanently elastic, fast curing 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(16) and has been approved for use in wall, ceiling and floor applications.

Applications

As Bedding Compound between steel, aluminium, polyester and/or wooden decks and teak strokes. 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 the use of a primer.
- Permanently elastic in a temperature range of -40°C to +100°C.
- Neutral and fast curing.
- MSR Bedding Compound has sound- and vibration deadening properties.
- MED Certified by Bureau Veritas: IMO Resolution A.653(16).

Adhesion

In general MSR Bedding Compound adheres well without primer on clean, dry and grease free substrates of e.g. aluminium, lacquered metal, wood and polyester (GRP).

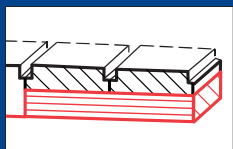
In cases of extreme environmental circumstances, like high thermal or mechanical loads, especially combined with high humidity levels, the use of Simson Primer P on wooden substrates and Simson Primer M on closed (metal) surfaces is recommended. For information on the application and consumption of these primers consult the specific technical information sheets.

Method of use

For specific application instructions consult the separate instruction sheet "Application manual for bonding and caulking of teak decks".

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 SMP Remover 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.



Marine •



MSR Bedding Compound

Technical data

Basic material	Silyl Modified Polymer (SMP)	
Curing method	moisture	
Specific gravity	ca. 1.3 g/ml	
Skin forming time	ca. 25 min.	(20°C/50%R.H.)
Open time	< 45 min.	(20°C/50%R.H.)
Curing speed after 24 hrs	ca. 2 mm	(20°C/50%R.H.)
Shore A hardness	ca. 32	(DIN 53505)
Volume change	< 3%	(DIN 52451)
Green strength	ca. 75 Pa	(Physica Rheometer MC100)
	(max. load which can be applied per m ² uncured adhesive without sagging)	
Tensile stress (100%)	ca. 1.0 MPa	(DIN 53504/ISO 37)
Tensile stress at break	ca. 1.9 MPa	(DIN 53504/ISO 37)
Elongation at break	ca. 300%	(DIN 53504/ISO 37)
Shear stress	ca. 1.8 MPa	(DIN 53283/ASTM D 1002)
	(Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.)	
Tear propagation	ca. 10 N/mm	(DIN 53515/ISO 34)
	(Type C, test speed 500 mm/min.)	
Solvent content	0%	
Isocyanate content	0%	
Temperature resistance	-40°C till +100°C	
Application temperature	+5°C till +35°C	
UV- and weather resistance	excellent	
Colours	white, grey, light grey, black	
Packaging	290 ml cartridges, 600 ml sausages, other packaging on request	

Storage stability

MSR Bedding Compound can be stored for 12 months in a closed (unopened) container in a dry place at temperatures between +5°C and +30°C (cartridges 18 months).

Further information

The following publications are available on request:

- Material Safety Data Sheets (MSDS Sheets)
- 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.

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