SIMSON MSR CA sskf

SILYL MODIFIED POLYMER

SMART ADVANTAGES

- Multipurpose
- Excellent adhesion
- Long open time

DESCRIPTION

Simson MSR Construction Adhesive sskf is a 1-component, permanently elastic, fast curing construction adhesive, based on Silyl Modified Polymer (SMP) and has been specially developed for bonding and sealing applications in the yacht- and boat building industry. Simson MSR Construction Adhesive sskf 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

Bonding/sealing in nautical applications, where adhesion and deformability have to comply with extreme requirements. Typical applications include:

- Bonding push borders
- Bonding and sealing deck fittings
- Bonding deck coverings
- Bonding sheets
- Bonding and sealing deck/hull connections
- Bonding deck hatches, portholes and bollards
- As bedding compound whenever a higher initial strength is required (slow skin forming version is recommended)

FEATURES

- Solvent- and isocyanate free
- Very good UV-resistance and ageing properties; long time resistance against fresh and salt water
- Good adhesion on commonly used materials without the use of a primer
- Elastic in a temperature range of -40°C to +100°C
- Neutral, odourless and fast curing
- Paint compatible with most industrial paint or coated systems, both alkyd resin and dispersion based (because of the large number of different types of industrial paints a paint compatibility test is recommended, please contact Bostik for advise)
- Can be sanded after curing
- MED Certified by Bureau Veritas: IMO Resolution A.653

TECHNICAL DATA

CHARACTERISTIC		VALUE
Basic material		Silyl Modified Polymer (SMP)
Curing method		Moisture
Specific gravity	**[g/ml]**	ca. 1.4
Skin forming time * 20°C/50% R.H.	**[min]**	ca. 15
Open time * 20°C/50% R.H.	**[min]**	Ca.35
Curing speed after 24 hrs 20°C/50% R.H.	**[mm]**	ca. 3
Shore A hardness DIN 53505		ca. 55
Volume change DIN 52451	**[%]**	< 3
Green strength ** Physica Rheometer MC100	**[Pa]**	ca. 300
Tensile stress (100%) DIN 53504/ISO 37	**[MPa]**	ca. 2.0
Tensile stress at break DIN 53504/ISO 37	**[MPa]**	ca. 3.0
Elongation at break DIN 53504/ISO 37	**[%]**	ca. 225
Shear stress *** DIN 53283/ASTM D1002	**[MPa]**	ca. 2.5
Tear propagation **** DIN 53515/ISO 34	**[N/mm]**	ca. 15
Solvent content	**[%]**	0
Isocyanate content	**[%]**	0
Temperature resistance	**[°C]**	- 40 to + 100
Application temperature	**[°C]**	+ 5 to + 35
UV- and weather resistance		Excellent
Colours (standard)		White, grey, black
Packaging		290 ml cartridges and 600 ml sausages

*Also available in slower skin forming time of ca. 20 min and open time of ca. 35 min.
** Max. load which can be applied per m^2 uncured adhesive without sagging.
*Also available in slower skin forming time of ca. 20 min and open time of ca.
*** Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.
**** Type C, test speed 500 mm/min.

ADHESION

In general, Simson MSR Construction Adhesive sskf adheres well without primer on clean, dry, dust- and grease free substrates of aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder coated metal, most lacquered metal surfaces, glass, PVC, polyester (GRP), painted and lacquered wood, etc. No adhesion on untreated polyethylene, polypropylene and teflon. In case of extreme environmental circumstances, like high thermal or mechanical loads and especially humid conditions, the use of a pre-treatment is recommended.
Use Simson Prep M on metal or other closed substrates. Use Simson Prep P on porous substrates like wood. For more details concerning Prep M and Prep P consult the specific Technical Data Sheets. In case of any uncertainties and for additional information consult Bostik.

METHOD OF USE

Simson MSR Construction Adhesive sskf can be extruded easily with a hand- or air pressure mastic gun. In sealing applications, Simson MSR Construction Adhesive sskf should be tooled or smoothened within 10 minutes; in bonding applications the substrates have to be assembled within 15 minutes (at 20°C/50% R.H.). In general, an adhesive thickness of 2 mm is recommended. Paint compatibility: Simson MSR Construction Adhesive sskf is compatible with most industrial paints and lacquers. Simson MSR Construction Adhesive sskf can be used for finishing/sealing welded sheets before they are sprayed with lacquers, thus contributing to corrosion protection. Because of its fast skin forming, Simson MSR Construction Adhesive sskf can be painted after 10 minutes (at 20°C/50%R.H.). The applied paint layer has no significant influence on the curing rate of Simson MSR Construction Adhesive sskf. Removing uncured residues of MSR Construction Adhesive 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 Construction Adhesive sskf 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)
- Certificate GL elastomeric adhesive, class A and B

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.

This product has been tested and certified to the DNV-GL structural glazing procedures. Approved as class A and B adhesive for bonding of e.g. insulating glass, single-pane safety glass, rails for fastening seats, door frames, single-pane polymer glass and wind breakers.

SMART SUPPORT

Please contact your local representative

SIMSON MSR CA sskf TECHNICAL DATA SHEET, APRIL 2014

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