

SIMSON B-component SMP

SILYL MODIFIED POLYMER

KEY BENEFITS

- Controlled curing process
- Faster bonding processes
- Larger overlap designs

DESCRIPTION

Simson B-component SMP is a paste like compound which is used as an accelerator for the curing process of SMP products (SMP = Silyl Modified Polymer).

APPLICATIONS

A small amount of the Simson B-component SMP (1 part B-component on 40 parts of SMP) significantly speeds up the curing time and the strength buildup of SMP based products from Bostik. The strength buildup in time is given in the figure overleaf. Alternatively, the B-component SMP allows for large overlaps and seams, which will not fully cure with a 1-component product because moisture is not able to diffuse, to fully cure independently from humidity into the larger overlaps.

Together with the standard SMP product, the Simson B-component SMP is extruded with a dedicated applicator, the Dual SMP 400P®. The two components are mixed together by means of a static mixer shortly before extrusion. There are two static mixers available: Static Mixer 8® for Simson products ISR 70-08 AP/70-05 AP and Static Mixer 10® for Simson products ISR 70-03/70-03 sskf, MSR-CA, MSR-CA sskf and MSR-FT.

FEATURES

- One part paste on dispersion base (paste is curing).
- Optimal mixing ratio: 1:40 (one part B-component SMP on 40 parts SMP product).
- Development of the Simson Dual SMP 400P has been carried out by Bostik

METHOD OF USE

Simson B-component SMP has to be mixed well into the SMP based adhesive with a static mixer. The mixing ratio of 2-component adhesives has to be controlled with great accuracy. The SMP (A-component) adhesive are available in packaging of 400 ml for the Dual SMP 400P® gun. Consult Bostik for additional information.

Note: Simson B-component SMP cures by itself (by release of moisture) if packaging is opened and exposed to dry air.

TECHNICAL DATA

CHARACTERISTIC	VALUE
Components	one
Basic material	dispersion based paste with special fillers and additives
Specific gravity [g/ml]	ca. 1.40
Dry contents [%]	ca. 74
Viscosity [Pa.s]	ca. 250-400
pH-value	8-9
Colour	Off white
Packaging B-component	10 ml tube
Packaging A-component	400 ml

RECOMMENDATIONS

Simson ISR 70-05 AP, ISR 70-08 AP and MSR FT need to be heated between 40 °C and 60 °C to create an acceptable speed and a better controlled mixing during the application with the Simson Dual SMP 400P gun. We also advice to heat up the ISR 70-05 AP, ISR 70-08 AP and MSR FT when used in a dual SMP pump system. None heated ISR 70-05 AP, ISR 70-08 AP and MSR FT can create less flow, less controlled mixing and more maintenance on both the pump and Simson Dual SMP 400 P guns. Open time due to the heating, can be slight reduction. Testing of open time before using both mentioned system will be strongly advised.

STRENGTH BUILDUP OF DUAL SMP® PRODUCTS, COMPARED WITH 1-COMPONENT COUNTER PRODUCTS

Specimen curing conditions 23°C/50%RH. Strength determined with single lap shear specimens, overlap of 25x25 mm, 2 mm bondline thickness, test speed 50 mm/min. The strength build up is given as a percentage of the final strength that is reached for each individual product. Please refer to the technical data sheet of the A component for this information.

ASSEMBLY - TRANSPORTATION

PRODUCT	OPEN TIME [min]
ISR 70-03	15
ISR 70-03 sskf	30
ISR 70-05 AP	10
ISR 70-05 AP sskf	15
ISR 70-08 AP	10

MARINE

PRODUCT	OPEN TIME [min]
MSR CA	15
MSR CA sskf	30
MSR FT	30

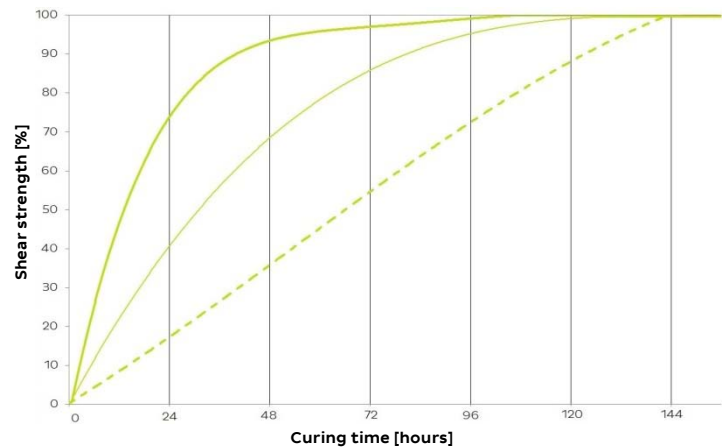
STORAGE STABILITY

Simson B-component SMP can be stored for 12 months in an original, unopened packaging in a dry place at temperatures between +5°C and +40°C. Keep free from frost.

FURTHER INFORMATION

The following publication is available on request: Material Safety Data Sheets (MSDS).

SHEAR STRENGTH



— ISR 70-05 AP/70-05AP sskf, ISR 70-08 AP, MSR FT
— ISR 70-03 AP/70-03 sskf, MSR CA/CA sskf
- - - one component

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

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