



SIMSON MSR CONSTRUCTION ADHESIVE SSKF

NAUTICAL APPLICATION INDUSTRIAL ADHESIVE

16 November 2017

YOUR SMART ADVANTAGES

- Solvent free 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.
- Permanently elastic in a temperature range of -40°C to +100°C.
- Neutral, odourless and fast curing.
- Paint compatible with most industrial paint or lacquer 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 advice).
- Can be sanded after curing.
- MED Certified by Bureau Veritas: IMO resolution A.653(16).

DESCRIPTION

MSR (Marine Special Range) Construction Adhesive SSKF is a one component, permanently elastic, fast curing construction adhesive based on Silyl Modified Polymer (SMP) It is the longer open time version of the **MSR Construction Adhesive**. This product has been developed for bonding and sealing applications in the yacht and boat building industry. **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. **MSR Construction Adhesive SSKF** used with Dual SMP technology guarantees an increased and controlled cure speed and reliability in the production process and extends the application possibilities.

USES

Bondings and sealings in nautical applications, where adhesion and deformability have to comply to extreme requirements. Typical applications include:

- Direct bonding of screens and windows (glass, polyacrylate (PMMA) and polycarbonate (PC)) in a nautical environment.
- Bonding push borders.
- Bonding and sealing deck fittings
- Bonding deck coverings.
- Bonding sheets.
- Bonding and sealing deck/hull connections.
- Bonding deck hatches and portholes.
- As bedding compound whenever a higher initial strength is required.

PRODUCT CHARACTERISTICS

| | |
|---------------------------------------|-------------------------------------|
| Basic Material | Silyl Modified Polymer (SMP) |
| Curing Method | Moisture |
| Specific Gravity | Ca. 1.4g/ml |
| Skin Forming Time | 15 min (@20°C/50% R.H.) |
| Open Time | < 35 min (@ 20°C/50%R.H.) |
| Curing Speed after 24hrs | Ca. 3 mm (@20°C/50% R.H.) |
| Shore A Hardness | Ca. 55 (DIN 53505) |
| Volume Change | <3% (DIN 52451) |
| Green Strength (max load before cure) | ca. 300Pa (Physica Rheometer MC100) |
| Tensile Stress (100%) | Ca.2.0 MPa |
| Tensile Stress at Break | Ca. 3.0MPa |
| Elongation at Break | Ca. 225% |

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PRODUCT CHARACTERISTICS Cont.

| | |
|--|-------------------|
| Shear Stress | Ca. 2.5 MPa |
| Tear Propagation | Ca. 15N/mm |
| Solvent Content | 0% |
| Isocyanate Percentage | 0% |
| Temperature Resistance | -40°C till +100°C |
| Application Temperature | +5°C till +35°C |
| UV-and Weather Resistance | Excellent |
| Colour | White and Black |
| Product code | |
| 290ml Cartridge White/12 per Cartridge | 30131880 |
| 290ml Cartridge Black/12 per Cartridge | 30131910 |

APPLICATION INSTRUCTION

Adhesion

In general, **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 such as high thermal or mechanical loads and especially humid conditions, the use of 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 about Prep M and Prep P, consult the specific technical data sheets. In case of any uncertainties and for additional information, please consult Bostik.

Application Method

MSR Construction Adhesive SSKF can be extruded easily with a hand or air pressure mastic gun. In sealing applications, **MSR Construction Adhesive SSKF** should be tooled or smoothed within 15 minutes; in bonding applications the substrates have to be assembled within 35 minutes (at 20°C/50%R.H.). In general an adhesive thickness of 2mm is recommended.

Paint compatibility: MSR Construction Adhesive SSKF is compatible with most with most industrial paints and lacquers. **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, **MSR Construction Adhesive SSKF** can be painted after 15 minutes (at 20°C/50%R.H.). The applied paint layer has no significant influence on the curing rate.

CLEAN UP

Excess material should be removed by wiping with clean dry cloth. Remaining material should be cleaned with Bostik Handi-Clean Towels or IPA (Iso propyl alcohol).

STORAGE & SHELF LIFE

Can be stored for 12 months in a closed (unopened) original container in a dry place at temperatures between +5°C and +30°C

PACKAGING

290ml Cartridge

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PRECAUTIONS IN USE

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit www.bostik.com/au for copies.

For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.



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