



ADHESIVES AND SEALANTS



MSR Fast Tack

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

Product

MSR Fast Tack is a permanently elastic, one-component, fast curing adhesive based on Silyl Modified Polymer (SMP) with a high green strength and an excellent UV stability and fresh and salt water resistance. MSR Fast Tack 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 applications that require a high initial strength. Clamping can be reduced or left out completely, resulting in higher production speeds.

- Direct bonding of screens and windows (glass, polyacrylate (PMMA) and polycarbonate (PC)) in a nautical environment.
- Bonding of push borders.
- Bonding of deck hatches and portholes.
- Bonding of sheets.
- Bonding of deck fittings.
- Bonding of deck/hull connections.

Features

- High green strength (internal strength). Reduced or no clamping needed.
- Solvent- and isocyanate free.
- Very good UV-resistance and ageing properties.
- In general good adhesion on several substrates without the use of a primer, e.g. ceramic coated glass, PMMA and PC.
- Permanently elastic in a temperature range of -40°C to $+100^{\circ}\text{C}$.
- Neutral, odourless and fast curing.
- Paint compatible with most industrial paint- or lacquer systems, both alkyd resin and dispersion based (due to the large scale of different types of industrial paints a paint compatibility test is recommended).
- Paintable after skin forming (wet on wet); this will not influence the curing speed.
- MED Certified by Bureau Veritas: IMO Resolution A.653(16).

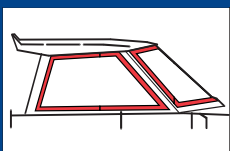
Adhesion

Without the use of a primer, MSR Fast Tack shows good adhesion to dry, grease-free and dust-free surfaces of aluminium, zinc, galvanised steel, copper, brass, stainless steel, most (powder) coated metals, PVC, polyester (GRP), glass and lacquered wood. In case of extreme environmental conditions, like high temperature and/or humidity, the use of Simson Primer M is recommended on metal or other closed surface substrates. Primer M degreases and activates the surface in one step.

In principle MSR Fast Tack has a good adhesion to glass. A primer is not necessary if the glass has a sufficient ceramic edge coating that protects the adhesive-glass interface against UV radiation. If the glass has no ceramic edge coating and no cover/tape shielding the adhesive-glass interface from UV radiation, then Simson Primer G has to be used. This primer protects the bond against UV degradation.



Marine •





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Method of use

MSR Fast Tack can be extruded easily with a hand- or air pressure mastic gun between temperatures of 5°C and 35°C. Because of the high green strength clamping can be significantly reduced and in some cases even be completely eliminated. The substrates have to be assembled within 15 minutes (at 20°C/50%R.H.) after the application of MSR Fast Tack. In general an adhesive thickness of 2 mm is recommended. Removing uncured residues of MSR Fast Tack 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.

Technical data

Basic material	Silyl Modified Polymer (SMP)	
Curing method	moisture	
Specific gravity	ca. 1.4 g/ml	
Skin forming time	ca. 10 min.	(20°C/50%R.H.)
Open time	< 15 min.	(20°C/50%R.H.)
Curing speed after 24 hrs	ca. 3 mm	(20°C/50%R.H.)
Shore A hardness	ca. 65	(DIN 53505)
Volume change	< 3%	(DIN 52451)
Green strength	ca. 1700 Pa	(Physica Rheometer MC100)
	(max. load which can be applied per m ² uncured adhesive without sagging)	
Tensile stress (100%)	ca. 2.2 MPa	(DIN 53504/ISO 37)
Tensile stress at break	ca. 2.9 MPa	(DIN 53504/ISO 37)
Elongation at break	ca. 225%	(DIN 53504/ISO 37)
Shear stress	ca. 2.3 MPa	(DIN 53283/ASTM D 1002)
	(Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.)	
Tear propagation	ca. 12 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, black	
Packaging	290 ml cartridges, other packaging on request	

Storage stability

MSR Fast Tack can be stored for 18 months in a closed (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 Sheet)
- 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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The Adhesive Company