

MS SAFE FIX

HIGH PERFORMANCE CONSTRUCTION ADHESIVE

13 April 2017

YOUR SMART ADVANTAGES

- Interior/Exterior
- Odourless
- Low VOC
- Easy gunning
- High bond strength
- Solvent, silicone and isocyanate free
- Weather resistant
- Flexible
- Paintable
- Bonds to most surfaces
- BRANZ appraisal 662 for structural loads and durability

USES

- General construction adhesive
- Walls and floors
- Elastically bonding different materials with each other
- Bonding granite, marble and tiles
- Bonding skirting of many different types
- Fixing wall panels, door frames, mirrors
- Bonding polystyrene

PRODUCT CHARACTERISTICS

Colour	White
Skin Time	~30 min
Cure rate	~3mm/24hour
Shrinkage	<3%
Sag or slump	Nil
Coverage	5mm bead: 15m per cartridge . 30 m per sausage.
Product codes	
430g cartridge/12 per carton	30605494

TYPICAL PERFORMANCE DATA (APPROX)

Elongation at break (2mm film)	>500%
Tensile Strength (2mm film)	~2.5N/mm ²

Shore A Hardness (53505)	~55
VOC – SCAQMD rule 1168	9g/L
Maximum movement capability	10%
Application temperature	5°C to 40°C
Service temperature	-40°C to 80°C

* The adhesive will deteriorate if subjected to high temperatures and/or humidity on a continuous basis.

DIRECTIONS FOR USE

Read and understand the Material Safety Data Sheet before using this product.

Since MS Safe Fix cures by reacting with atmospheric moisture it will not cure (or will cure very slowly) if used between two non porous surfaces (e.g metal) or in a fully enclosed space where air cannot penetrate. At least one surface should be absorbent for the best results.

MS adhesives are not always compatible with plasticized sealants and bitumen. The incompatibility may cause discolouration, poor sealant cure or long term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials may occur.

SURFACE PREPARATION

- Ensure that the surfaces to be bonded are dry and free from oil, dirt and grease. Use the two wipe cleaning process for impervious substrates. Ensure the cloths are clean and changed frequently. Use a suitable cleaner such as isopropyl alcohol.
- Although adhesion is achieved without the use of primers, priming substrates improves the bond strength and durability. Prime substrates following instructions from the applicable Technical Data Sheet.
- Metals, GRP, ABS and PVC: Simson Prep M
- Concrete, brickwork and timber: Simson Prep P
- Glass: Simson Prep G is required on all glass
- Some rubbers and plastics require special pre-treatment for best adhesion – contact Bostik for assistance.
- Timber for framing should comply with NZ 3604.
- All traces of plaster dust must be removed from the back of fibrous plaster sheets. Fixers must ensure that the back face of fibrous plasterboard is compatible with the adhesive, particularly ensuring that excess additives such as siliconates have not been

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concentrated on the surface, or that the surface of fibrous plasterboard has not been weakened by excess water floating out on the back face of the sheet during manufacture.

APPLICATION

- Cut the nozzle at a 45° angle to the desired width. Cut the cartridge tip, fit the nozzle and place in caulking gun.
- Apply a 4 - 5 mm diameter bead of adhesive, to all studs, plates and other contact surfaces. Adhesive bead should be continuous for full length of bearing surfaces, particularly at the point corresponding to the perimeter of the panel or sheet. The adhesive beads should be spaced not more than 600 mm apart on flat surfaces and at stud width on framing.
- Alternatively, the adhesive can be spot applied by gunning a 20mm blob on to the fixing surface every 450-600mm for walls or 200 -300mm for ceilings. This translates to at least 4 blobs per full sheet on each stud for walls and at least 8 blobs per joist per full sheet on each joist for ceilings.
- Locate panel on wall within 10 minutes while adhesive is wet, press firmly over area to ensure adhesive transfer to panel. The panel should then be braced in position for 6 - 16 hours or temporary mechanical fixing (nails or screws) used to support the loading until cure takes place.
- When fixing fibrous plaster to ceilings the sheets must be nailed or shored for at least 24 hours until the adhesive has cured. Fixers must ensure that the back face of the board is pressed into close contact with the joists/battens over the entire bonded surface and remain in close contact for the full curing time of the adhesive.
- Cold and/or less humid conditions will extend the drying time. Similarly less porous surfaces will extend the drying times. Where cold conditions below 10° C are expected after fixing, the temporary fixing must be left for at least an additional 12 - 24 hours.
- Maximum working time between contact and pressure application is 30 minutes at 23°C/50%RH, time will be shorter in hot and/or humid conditions.
- Ms Safe Fix is paintable as per DIN 52452 Part 4. Due to the large variety of paint systems available we recommend testing to confirm paint compatibility.

LIMITATIONS

- MS Safe Fix is NOT suitable for the following applications:
 - o Totally confined spaces where there is no atmospheric humidity, which is needed for curing
 - o Glazing applications
 - o Underwater applications
 - o Below grade applications
- Do not apply in the same area that silicone has recently been applied. Fumes from the silicone can affect the cure of the MS and may ultimately lead to premature failure
- Testing of new substrates is recommended especially painted, plastic and acrylic substrates.

CLEANING

Remove excess adhesive using Bostik No.3 Solvent. Do not use isopropyl alcohol to clean around uncured sealant. Cured sealant can only be removed mechanically. Use Bostik Handy Wipes to remove sealant from tools and skin.

STORAGE AND SHELF LIFE

Store in a cool dry place below 25°C and out of direct sunlight. Shelf life is 12 months from the date of manufacture when stored as directed.

DISPOSAL

Empty containers may be disposed via local landfill. If spilt, absorb with clay, sand or earth. Collect and seal in properly labelled metal container. Dispose of according to local authority regulations. Do not dispose of down drains or into local waterways.

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.co.nz for copies.

MS Safe Fix is not classified as Dangerous Goods or as a Hazardous Substance. The product however, should be used in accordance with good occupational, health and safety practices.

Do not swallow and avoid prolonged or repeated contact with the skin.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth with water, do not induce vomiting.

For emergency information contact the National Poisons Information Centre, phone 0800 764 766 (0800 POISON) or CHEMCALL, phone 0800 243 622.

BOSTIK HOTLINE

Smart help 0508 222 777



This datasheet is for the general help of users. It is provided in good faith. The data is current and accurate to the best of our knowledge. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. Users should carry out tests to decide the product's suitability for purpose. This data sheet and the properties of the product may change without notice. Users, suppliers and retailers should check that the data sheets they have are the latest. To the maximum extent permitted by law, Bostik disclaims all warranties in relation to manufacture and use of the product. Bostik is not liable for representations made by users, suppliers or retailers about the product. Bostik is not liable for any loss or damage resulting from incorrect, careless, or negligent use or storage of the product, including use of out of date product. Any liability arising from use of the product is limited to the replacement or purchase price of the product. Bostik does not exclude rights and remedies that be excluded by legislation, for example under the Consumer Guarantees Act 1993. Sale of the product by Bostik is subject to the Bostik New Zealand Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit www.bostik.co.nz.

Technical Advice Tel: 0508 222 777 nzsales@bostik.com