

# MS SAFE SEAL

## HIGH PERFORMANCE CONSTRUCTION SEALANT

19 September 2014

### YOUR SMART ADVANTAGES

- Meets NZBC E2/AS1
- BRANZ appraised: Appraisal No.705 (2010)
- Complies with ISO 11600/F/25LM
- Suitable for LOSP
- Low odour
- Low VOC
- Can be used in green buildings
- Non slump
- Easy to gun and tool
- Paintable
- Total movement 50%(± 25%)
- Very low shrinkage

### USES

- Sealing expansion joints
- Sealing in general construction
- Sealing most building materials

### PRODUCT CHARACTERISTICS

Colour	Black, white and grey
Skin Time	2 to 3 hours
Cure rate	~2mm/24hours
Shrinkage	<3%
Sag or slump	Nil
Coverage	~1.5m per 300ml for a 20 x 10mm bead

#### Product code

300ml cartridge/12 per carton

Black	30604593
White	30604591
Grey	30604592
900g sausage/12 per carton	
Black	30804011
White	30804179
Grey	30804013

### TYPICAL PERFORMANCE DATA (approx.)

Elongation at break	>450%
Modulus at 100% elongation – Din 52455 NWT-1-A2-100	~0.3 to 0.5N/mm <sup>2</sup>
Shore A Hardness (53505)	~25
Elastic Recovery (DIN EN 27389-B-200)	>70%
Expansion ratio (depending on joint width)	25%
VOC – SCAQMD rule 1168	15g/L
Application temperature**	5°C to 40°C
Service temperature	-40°C to 80°C

\*\*Surface to be sealed must be dry and free from frost.

### DIRECTIONS FOR USE

MS sealants are not always compatible with plasticized sealants, bitumen and some backing rods. 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

Joint design must conform to manufacturer's recommendations and NZBC requirements. Compatible backing rods or release tape must be used to ensure two sided adhesion only in joints and limit joint depth. Recommended joint width to depth ratios:

Joint Width - mm	Joint Depth - mm
≤12	6
13 ≤ and ≥ 30mm	Width/2
>30mm	15mm

Always ensure that the surfaces to be sealed 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

## MS SAFE SEAL

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

Masking areas to be sealed gives a neater finish.

### APPLICATION

Cut the nozzle at a 45° angle to the desired width. Cut the cartridge or sausage tip, fit the nozzle and place in caulking gun. Hold the gun at a 45° angle and push sealant ahead of the nozzle, ensuring firmly placed sealant in contact with both sides of the joint. Tool off smooth and remove masking tape before skinning occurs.

### LIMITATIONS

- MS Safe Seal is NOT suitable for the following applications:
  - o Totally confined spaces where there is no atmospheric humidity, which is needed for curing
  - o Adhering mirrors
  - o Glazing applications
  - o Under water applications
  - o Below grade applications
  - o Trafficable surfaces – Use Bostik Seal 'n Flex FC
  - o Re-sealing over silicone sealants
- MS Safe Seal has a movement capability larger than a normal paint film. Cracking of the paint film may occur if the joint is moving.
- Some elastomeric paints contain plasticisers which may affect the sealant. Prime the sealant with a pure acrylic paint first.
- Compatibility testing is required prior to sealing natural and synthetic stone.
- Testing of new substrates is recommended especially painted, plastic and acrylic substrates.

### CLEANING

Remove excess sealant 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 labeled 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](http://www.bostik.co.nz) for copies.

MS Safe Seal 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 cannot 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](http://www.bostik.co.nz)