MS SAFE SEAL
HIGH PERFORMANCE CONSTRUCTION SEALANT

23 December 2015

YOUR SMART ADVANTAGES
- Meets NZBC E2/AS1
- 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
<table>
<thead>
<tr>
<th>Colour</th>
<th>Black, white and grey</th>
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<tbody>
<tr>
<td>Skin Time</td>
<td>2 to 3 hours</td>
</tr>
<tr>
<td>Cure rate</td>
<td>≤2mm/24hours</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>Sag or slump</td>
<td>Nil</td>
</tr>
<tr>
<td>Coverage</td>
<td>~1.5m per 300ml for a 20 x 10mm bead</td>
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</tbody>
</table>

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/mm²
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:

<table>
<thead>
<tr>
<th>Joint Width - mm</th>
<th>Joint Depth - mm</th>
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<tbody>
<tr>
<td>≤12</td>
<td>6</td>
</tr>
<tr>
<td>13 ≤ and &gt; 30mm</td>
<td>Width/2</td>
</tr>
<tr>
<td>&gt;30mm</td>
<td>15mm</td>
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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 cleaner such as isopropyl alcohol. Although adhesion is achieved without the use of primers, priming substrates improves the bond strength and durability.
MS SAFE SEAL

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.

Once cured MS Safe Seal in paintable according to DIN 52452 Part 4.

**LIMITATIONS**

- MS Safe Seal is NOT suitable for the following applications:
  - Totally confined spaces where there is no atmospheric humidity, which is needed for curing
  - Adhering mirrors
  - Glazing applications
  - Under water applications
  - Below grade applications
  - Trafficable surfaces – Use Bostik Seal ‘n Flex FC
  - 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 high build 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.

- 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 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.

**MAINTENANCE**

Do not clean or treat Bostik MS Safe Seal with materials, cleaning agents or solvent that may affect or discolour the product. This includes, but is not limited to, bleach containing cleaners, solvents and paint fumes.

Exterior: Rain washing plus manual washing every year. Severe environments may require more frequent washing.

Interior and exterior: yearly inspection and repair of defects as found is required.

**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 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.

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

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