



# SafeSeal

## High Performance Construction Sealant

### DESCRIPTION

Bostik SafeSeal is a solvent free versatile 1-part low modulus silyl modified polymer (SMP) sealant for multipurpose applications in the construction and general building industry.

SafeSeal cures with humidity from the air to form a tough but low modulus sealant with high elasticity, which has an excellent resistance against weathering and chemicals. This new easy to use sealant is resistant to water immersion during the early stages of curing.

SafeSeal is free of solvents, PVC, PCB and isocyanates and is fully paintable according to DIN 52452, PT4. It has an extraordinary low shrinkage on curing.

Bostik SafeSeal Construction Sealant passes ISO 11600-F-25LM and is New Zealand E2/AS1 compliant.

SafeSeal is suitable for most common building materials such as concrete, brick, fibre cement boards, glass, ceramic tiles, marble, natural stone, metals, timber, rigid PVC and all connection and movement joints, indoor and outdoor. It is ideal for all construction joints, such as at window, door, roof and facades, joints in wood and metal architraves. This sealant is not designed to seal continuously immersed joints or below waterline applications.

### TYPICAL PROPERTIES

<b>Type:</b>	Silyl Modified Polymer (SMP), neutral curing
<b>Colours:</b>	Grey, Black, White
<b>Curing system:</b>	With humidity from air
<b>Sagging:</b>	< 2 mm (DIN 52454-ST-U 26-23)
<b>Extrusion rate:</b>	> 100 g/min (DIN 52456 - 6 mm)
<b>Density:</b>	Approximately 1.5 g/cm (DIN 52451 -PY)

<b>Skin formation:</b> (+23 °C / 50% RH)	Approximately 2 hours
<b>Curing speed:</b> (+23 °C / 50% RH)	Approximately 2 mm/24 hours
<b>Shrinkage:</b>	< 3% (DIN 52451 -PY)
<b>Tensile strength:</b> (@ 100% elongation)	Approximately 0.3 - 0.4 N/mm <sup>2</sup> (DIN 52455 NWT-1-A2-100)
<b>SHORE A hardness:</b>	Approximately 20 (DIN 53505, 28 days at 23 °C/50% RH)
<b>VOC</b>	Zero (zero solvent or isocyanates)
<b>Elastic recovery:</b>	> 70% (DIN EN 27389-B-200)
<b>Movement capability:</b>	25%, related to original dimensions of the joint
<b>Temperature limits:</b>	Approximately -40 °C to +80 °C; short-time up to +100 °C
<b>Application temperatures:</b>	+5 °C to +40 °C (surface temperature)

### PREPARATION OF JOINTS

Surfaces to be sealed have to be **sound, clean and dry and free from dust, grease and release agents and flaky paint or old sealant residue**. Do not attempt to re-seal over silicone sealants. Materials to be sealed must be compatible with SafeSeal (according to DIN 52452, Part 1); they must not contain bitumen or tar. Adhesion and compatibility with plastics must be tested to ensure good adhesion. When sealing coated surfaces (such as water repellent facades) a pre-test for compatibility must be carried out. With some acrylic coatings adhesion loss has been observed due to plasticizer migration.

Joint design is done according to DIN 18540; that is approximately 2:1 ratio width to depth. Avoid three sided adhesion. Always use profiles made from polyethylene foam for pre-filling, to avoid adhesion of the sealant to the backside of the joint. Profiles have to be compatible with SafeSeal; do not use products containing bitumen, tar or oil. Cover edges of the joint with adhesive masking tape.

*The recommendations given on this document are intended for the assistance of users and are of a general nature. They are based on our experience and judgement but because of the conditions under which, and the materials with which our products are used are beyond our control, our recommendations must not be regarded as amounting to any legal warranty or as involving any liability on us.*

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Primers: Bostik / Simson Prep P film-forming primer for concrete and other porous materials and for a few metals and plastics. For sealing of natural and synthetic stone compatibility tests have to be performed. This product can be used without primer on anodized aluminium, galvanised steel, rigid-PVC, polystyrene and polycarbonate. Any glass surfaces must be primed using Bostik / Simson Prep G to prevent UV attack to the glass / sealant interface.

### APPLICATION

Fill joints with sealant evenly and without trapping air. Smooth surface immediately using spatula wetted with water with a SMALL amount of wetting agent added. Remove adhesive tape directly after smoothing of the surface and before sealant forms any skin. Use only low concentration of wetting agent to avoid discoloration of sealant or adjacent surfaces. Use opened containers within short period of time.

Curing time depends on temperature and humidity. Once a firm skin has formed paint can be applied. It is best to use a pure acrylic water based paint as the first coating over the sealant. Note that SafeSeal has a movement capability far greater than a normal paint film. If the joint is moving then cracks can appear in the paint surface.

### Limitations

Bostik SafeSeal is not recommended for sealing floor joints.

### CLEANING

Uncured material can be removed using Bostik No. 2 Solvent. This solvent can also be used to remove grease from the surface to be sealed. Cured materials can only be removed mechanically.

### USAGE

The following usages apply for a 10 x 10 mm<sup>2</sup> joint:

- 600 ml sausage - approximately 6 metres
- 375ml cartridge - approximately 3.75 metres.

### SHELF LIFE

9 months if stored in cool, dry conditions in original, unopened containers.

### HEALTH AND SAFETY

Fuller 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 the appropriate Safety Data Sheets are read by all concerned. Visit [www.bostik.co.nz](http://www.bostik.co.nz) for copies.

### FIRST AID

**Swallowed** Do not induce vomiting, give a glass of water and contact a doctor immediately.

**Skin** Remove contaminated clothing, wash with warm soapy water. Do not scrub.

**Eyes** Hold open and flood with water for at least 15 minutes. Get medical advice.

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

### DISPOSAL

If spilt, absorb with clay, sand or earth. Dispose of in land fill.

### VERSION

October 2008

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