

## NBS PLUS MANUFACTURER'S PRODUCT PAGE

**Product name:** Surestop SM

Currently there is no image attached to this product. If you would like to include an image please contact [nbsplusproduction@theNBS.com](mailto:nbsplusproduction@theNBS.com) for details.

### Product summary:

One-component, polyurethane based, hydro-swelling mastic.

### Product general description:

One-component, polyurethane based, hydro-swelling mastic for the sealing of construction joints.

#### Features and benefits:

- Solvent-free.
- Good filling and adhesion properties ensure the filling of cracks and voids on all surface types (rough, smooth, moist or dry).
- Will expand to 350% of its original volume when in contact with water.
- Flexible, and will adapt to the irregular surface of the substrate.
- Easy to apply with a standard caulking gun.
- Durable, and will last as long as the construction.
- Good chemical resistance and can resist petroleum, mineral and vegetable oils and greases.
- Can be used with potable water.
- Fully cured in 24–36 hours (dependent on temperature and humidity conditions).
- WRAS approved.

#### Applications:

Can be applied to:

- Concrete.
- Polyvinyl chloride (PVC).
- High-density polyethylene (HDPE).
- Steel.

Used for:

- Sealing of rough and smooth construction joints of in-situ cast concrete.
- Sealing joints between pre-cast segments (manholes, box culverts, cable ducts and pipes).
- Sealing around steel H beams.
- Sealing between rough surfaces (e.g. slurry walls) and concrete slabs.
- Sealing to underside to capping beams.
- Bonding strip sealants to rough surfaces.
- Sealing around bolt spacers and void formers.
- On secant pile walls.

To avoid premature swelling of the strip, do not apply during heavy rainfall. The mastic should be allowed to cure 24 hours before pouring concrete.

Consumption will depend upon the quality of the surface of concrete.

### Product specification clause

### Product reference:

Surestop SM

**Product properties:**

- Accessories/ Other requirements:

[And]

Not required

PS Hi-Flow Grouting Mortar - Consult manufacturer for information.

Skeleton Gun

Surestop BWB

Surestop Voidformer

**End of product specification clause****As standard:****Colour:**

White.

**Technical characteristics:**

Solids content: 100%.

**- Uncured:**

- Form: Gel/ paste.
- Density (at 20°C, to DIN 53504): 1.45 kg/dm (approximately).
- Slump (in vertical applications): 5 mm.
- Drying time (at 20°C and 60% RH): 12 hours.
- Flash point: >130°C.

**- Cured (after 7 days at 25°C with 10 mm thick coating):**

- Form: Rubber.
- Elongation at break (to DIN 53504): 625% (approximately).
- Tensile strength (to DIN 53504): 2.2 N/mm<sup>2</sup> (approximately).
- Resistance to hydrostatic pressure: Up to 150 m of water column.
- Swelling capacity (when in contact with water): 350% of dry volume.

**- Chemical resistance:**

- Unleaded fuel: 46% expansion (resistant, mastic turns yellow).
- Diesel: 2% expansion (resistant, mastic turns yellow).
- Toluene: 143% expansion (resistant).
- Xylene: 85% expansion (resistant).
- Methanol (50%): 405% expansion (resistant).
- Isopropanol (50%): 500% expansion (resistant).
- N-methyl pyrrolidone: 618% expansion (limited resistance, mastic turns yellow).
- Ethylacetate: 195% expansion (resistant).
- Methyl isobutyl cetone: 87% expansion (resistant).
- Formol (36%): 500% expansion (resistant).
- Acetic acid (10%): 150% expansion (limited resistance).
- Sulphuric acid (10%): 193% expansion (resistant).
- Sulphuric acid (20%): 231% expansion (resistant).
- Sodium hydroxide (20%): 20% expansion (resistant).
- Sodium chloride (26%): 25% expansion (resistant).

**Options:**

No optional features

**Approvals:**

No approvals