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## PRODUCT DATA SHEET

# Surestop SM

**Surestop SM** is used for the following:

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

### ADVANTAGES

- Solvent free.
- **Surestop SM** can be applied to concrete, PVC, HDPE, steel etc.
- The excellent filling and adhesion properties of the product provide a first line filling of cracks and voids, even on lightly humid smooth or rough surfaces.
- In contact with water **Surestop SM** will expand to 350% of its original volume.
- Flexible system, which adapts to the irregular surface of the substrate.
- Easy application with standard caulking gun.
- Durable: will exceed the constructions life.
- Has a good all round chemical resistance and can resist petroleum, mineral and vegetable oils and greases.
- **Surestop SM** is approved for contact with potable water.



### DESCRIPTION

**Surestop SM** is a one component, polyurethane based, solvent free, hydro swelling mastic, supplied in cartridges and aluminium sausages, for the sealing of construction joints.

**Surestop SM** cures and swells in the presence of moisture curing time depends on the temperature and humidity conditions i.e. curing time will reduce if the temperature is higher. **Surestop SM** will become firm in 24-36 hours. Performance is not affected by the curing time.

### APPLICATION

- **Surestop SM** is preferably applied onto dust free concrete surface. The surface can be rough or smooth, moist or dry.
- Installation during heavy rain or in prolonged contact with water results in a premature swelling of the strip, which should be avoided.
- The mastic should cure for 24 hours before pouring concrete.
- Despite the fact that **Surestop SM** has a very good adherence to the concrete, care must be taken as with all products of this type, not to pour the concrete directly on the product to avoid damaging of the applied sealant.



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### APPLICATION METHOD

Break the moisture proofing aluminium foil on the top of the cartridge (nozzle end). Cut the nozzle diagonally at the appropriate position. Place the cartridge in the caulking gun. In cold temperatures cartridges may require warming to allow free flow of product (see storage information below)

### ANCILLARY PRODUCTS

- Surestop BWB
- Surestop Voidformer
- Skeleton Gun
- PS Hi-Flow Grouting Mortar (contact PUDLO for specific requirements)

### TECHNICAL DATA PROPERTIES

Property	Value	Norm
Solids	100%	Test DNC
<b>Uncured</b>		
Consistency	Gel/Paste	Test DNC
Density at 20	Approx, 1.45 kg/dm	Din 53504
Slump in vertical applications	5mm average 3mm	Boeing test
Hand dry (at 20 and 60% rel. humidity)	12h	Test DNC
Flash point	>130C	Pensky - martens method
<b>Cured (7days at 25c, 10mm thick)</b>		
Elongation at break	Approx 625%	DIN 53504
Tensile strength	Approx 2,2 n/mm <sup>2</sup>	DIN 53504
Resistance to hydrostatic pressure	Up to 150 metres of water column	Test DNC
Swelling capacity in contact with water	Swells to approx. 350% of its original dry volume	Test report KUL University

### APPEARANCE

During application pasty, after curing rubbery.  
Colour - White.

### CONSUMPTION

The consumption of **Surestop SM** per linear meter depends on the quality of the surface of the concrete.

Nozzle diameter	Length (cartridge)
3mm	20 – 25m
6mm	8 – 10m
8mm	4 – 5m
10mm	Approx.3m

### PACKAGING

310ml cartridge	
12 per box	
1 pallet= 75 cardboard boxes	
Weight per cartridge	
• 0.55 kg gross	• 0.50 kg net



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### STORAGE

Minimum 12 months in a dry place at temperature between 5 degrees and 30 degrees. See shelf life information on the packaging.

### CERTIFICATES/APPROVALS

- WRAS drinking water approval – UK
- The product is exempt from CE and therefore does not require CE certification/accreditation

### CHEMICAL RESISTANCE

PRODUCT	% EXPANSION	OBSERVATION
Unleaded fuel	46%	Mastic turns yellow/resistant
Diesel	2%	Mastic turns yellow/resistant
Toluene	143%	Resistant
Xylene	85%	Resistant
Methanol 50%	405%	Resistant
Isopropanol 50%	500%	Resistant
N-methyl pyrrolidone	618%	Mastic turns yellow/ limited resistance
Ethylacetate	195%	Resistant
Methyl isobutyl cetone	87%	Resistant
Formol 36%	500%	Resistant
Acetic acid 10%	150%	Limited resistance
Sulphuric acid 10%	193%	Resistant
Sulphuric acid 20%	231%	Resistant
Sodium hydroxide 20%	20%	Resistant
Sodium chloride 26%	25%	Resistant