

**PLAKA – SWELLSEAL MASTIC**

Hydro swelling mastic for sealing

REF 05.05.04 - Version V01 - 14/08/2020



**Description**



Swellseal Mastic is a sprayable hydroswellling mastic for the sealing of rough and smooth construction- and cold joints and pipe transits in concrete.

Swellseal Mastic is a polyurethane based , solvent-free hydroswellling mastic, supplied in cartridges and aluminium sausages, for waterproof joints and pipe transits in concrete.

Swellseal Mastic can easily be applied with a standard caulking gun.

**Application fields**



Swellseal Mastic is used for:

- Sealing rough and smooth construction joints of in-situ cast concrete.
- Sealing joints between pre-cast 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 strip sealants to rough surfaces.
- Sealing around bolt spacers and void formers.
- On secant pile walls.

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**Properties**

Mechanical properties		
Property	Value	Norm
Solids	100%	Test DNC
<b><i>Uncured</i></b>		
Consistency	Gel / paste	Test DNC
Density (at 20°C)	± 1,45 kg/dm <sup>3</sup>	DIN 53504
Slump in vertical applications	<5 mm (average 3 mm)	Boeing test
Handdry (at 20°C and 60% rel. humidity)	12 h	Test DNC
Flash point	> 130°C	Pensky – Martens method
<b><i>Cured(7 days at 25°C, 10 mm thick)</i></b>		
Elongation at break	± 625%	DIN 53504
Tensile strength	± 2,2 N/mm <sup>2</sup>	DIN 53504
Resistance to hydrostatic pressure	Up to 150 meter 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 Swellseal Mastic per linear meter depends on the quality of the surface of the concrete. With an average thickness and width of 10 mm, it is possible to spray with 1 cartridge of 310 ml , a swellseal mastic of approx.3 meters.

Consumption		
Nozzle diameter	Length (cartridge)	Length (sausage)
3 mm	20 – 25 m	40 – 50 m
6 mm	8 – 10 m	16 – 20 m
8 mm	4 – 5 m	8 – 10 m
10 mm	Approx. 3 m	Approx. 6 m

Storage

Minimum 12 months in a dry place and temperatures between 5°C and 30°C.

See shelf life information on the packaging.

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Certificates

WRAS – Drinking Water approval – UK.

Accessories**To be ordered separately**

- Skeleton caulking gun for cartridges 310 ml.(See Technical datasheet)
- Caulking gun for sausages 600 ml closed tube. (See Technical datasheet)
- Nozzle for caulking gun 600 ml. closed tube. (See Technical datasheet)

Health & Safety

For full information consult the relevant Material Safety Data Sheet.

(\*) For chemical resistances please contact your sales representative.

**Application**1. Precautions

- Swellseal Mastic is preferably applied onto a dust-free concrete surface. The surface can be rough or smooth, moist or dry. In case of a moist surface, Swellseal Mastic must be used. Installation during heavy rain or in prolonged contact with water results in a premature swelling of the strip, which should be avoided.
- Despite the fact that Swellseal Mastic 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.
- Swellseal Mastic is applied with a caulking gun in an uninterrupted band ( minimum 10 mm wide and high), in the middle of the joint or prefab element. Concrete cover should be at least 7 cm on both sides.
- Preferably the mastic should cure for 24 hours before pouring concrete.

2. Application methodFor 310 ml cartridges

- Break the moisture proofing aluminium foil on the top of the cartridge and remove the seamer from the bottom.
- Cut the nozzles diagonally at the appropriate position.
- Place the cartridge into caulking gun.




For 600 ml sausages

- Put the sausage in the empty tube of the caulking gun and cut 1 cm off the top of the sausage.
- Close the tube and install the nozzle.
- Cut the nozzle diagonally at the appropriate position .

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**Dimensions**

Material dimensions				
Code	Picture	Article	pc/Box	Kg/1
DNS		Swellseal mastic 310 ml	1	0,50
DNSG		Swellseal mastic 600 ml	1	0,89
DNSP		Swellseal caulking gun for 600 ml	1	1,41

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