SWELLSEAL® Mastic WA

Caulk-applied, one-component, hydro-swelling mastic for sealing smooth and rough construction joints and pipe penetrations in wet or underwater applications

Product Description

SWELLSEAL® Mastic WA is a one-component, grey, polyurethane-based, elastic, hydro-swelling mastic, supplied in aluminium sausages, for the sealing of expansion joints and around pipe penetrations.

SWELLSEAL® Mastic WA cures and swells in the presence of moisture. Curing time is dependent on temperature and humidity conditions, i.e. curing time will reduce if RH and Celsius degrees are higher. SWELLSEAL® Mastic WA will become firm in 24-36 hours. Performance is not affected by the curing time.

Product Advantages

- Due to its special formulation, SWELLSEAL® Mastic WA can be applied onto wet surfaces or in underwater applications.
- Suitable for fresh or salt water applications.
- Solvent free.
- SWELLSEAL® Mastic WA adheres to concrete, PVC, HDPE, steel, fibre glass, 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 SWELLSEAL® Mastic WA will expand to about 200% of it’s original volume.
- Flexible system, which adapts to the irregular surface of the substrate.
- Easy application with a standard caulking gun.
- Durable: will exceed the construction’s life.
- Good chemical resistance(*).
- Resistant against petroleum products, mineral and vegetable oils and greases.

(*) For chemical resistance please contact your local GCP representative.

Field of Application

- Sealing of joints of in-situ cast concrete in wet and underwater applications.
- Sealing joints between precast segments in wet or underwater applications (e.g. manholes, box culverts, cable ducts and pipes).
- Sealing of the locks between sheet piles.

Application

SWELLSEAL® Mastic WA is preferably applied onto a dust-free concrete surface. The surface can be rough or smooth, moist or dry. When applying SWELLSEAL® Mastic WA in underwater or very wet applications, be certain to cast the concrete within 6 hours to prevent premature swelling.

Application Method

For 600ml Sausages

- Put the sausage in the empty tube of the caulking gun and cut 1cm off the top of the sausage. Close the tube and install the nozzle. Cut the nozzles diagonally at the appropriate position.
- SWELLSEAL® Mastic WA is applied in an uninterrupted band (minimum 10mm wide and high), placed with a caulking gun in the middle of the joint or prefab element (minimum concrete cover is 7cm).
- In case of fresh concrete, SWELLSEAL® Mastic WA should be covered by at least 7cm of concrete on both sides, in order to avoid cracks from the expansion pressure of swelling SWELLSEAL® Mastic WA.

Appearance

Pasty during application and rubbery after curing. Colour: grey.

Technical Data / Properties

PROPERTY	VALUE	NORM
Solids	100%	Test DNC
Uncured		
Viscosity	Gel / Paste	Test DNC
Density (at 20°C)	Approx. 1.45kg / dm^3	DIN 53504
Slump in Vertical Application	< 5mm	Boeing test
Hand Dry (at 20°C and 60% rel. humidity)	10h	Test DNC
Flash Point	> 130°C	Pensky-Martens method
Cured (7 days at 25°C, 10mm thick)		
Swelling Capacity in Contact with Water	Swells to approx. 200% of its original dry volume	Test DNC

Consumption

NOZZLE DIAMETER	LENGTH (SAUSAGE)
3mm	40 - 50m
6mm	16 - 20m
8mm	8 - 10m
10mm	Approx. 6m

Packaging

600ML SAUSAGES
12 per cardboard box
1 pallet = 40 cardboard boxes
Weight per sausage = 0.99kg gross

Storage

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

See shelf life information on the packaging.

Accessories

To be ordered separately

- Caulking gun for sausages 600mL closed tube.
- Nozzle for caulking gun 600mm closed tube.

Health & Safety

For full information consult the relevant Material Safety Data Sheet.

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Last Updated: 2026-04-29