

SPETEC® WT400

HYDRO-SWELLING WATERPROOFING SEALANT



DESCRIPTION

SPETEC® WT400 is a single component hydrophilic caulk designed to swell and/or expand in the presence of water creating a water tight seal around pipe penetrations, cold joints and other waterstop locations. SPETEC® WT400 should be applied onto a dust free, oil free surface to maximize bond strength. SPETEC® WT400 should be applied at a minimum bead of 10mm with a minimum concrete cover of 7cm. SPETEC® WT400 must be fully confined to properly expand and seal the surface. This material can be applied underwater on clean surfaces.

ADVANTAGES

- Single component.
- MDI based.
- Strong adhesion to concrete and steel even in humid conditions.
- High elongation.
- Remains elastic after curing.
- Solvent free.
- High expansion: 450%
- Can be applied under water.
- Non-sagging.

FIELDS OF APPLICATION

- Waterstop
- Tunnel Segment joints
- Pipe penetrations
- Poured wall joints
- Cold joints
- Sheet pile joints
- Manhole joints
- Pre-cast segments

APPLICATION

Note: the following is a typical application description. In case of other jobsite parameters, please contact our technical department.

REQUIRED TOOLS

- Skeleton caulking gun for cartridges.
- Caulking gun for sausages (closed tube).
- Nozzle for caulking gun sausages (closed tube).

PREPARATION OF THE SUBSTRATE

The SPETEC® WT400 must be applied on a dust-free concrete or metal surface.

Use at temperatures between +5°C and 30°C
Surface can be rough, smooth, wet or dry.

PREPARATION OF THE PRODUCT

For the cartridges of 310 ml:

- Break the alu foil at the nozzle.
- Remove the seamer of the bottom.
- Cut the nozzle diagonally at the appropriate position.
- Place the cartridge in the gun and press the lever.

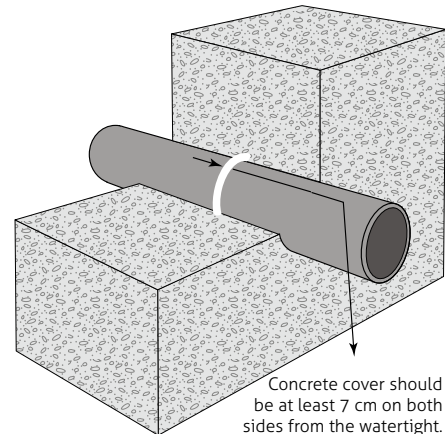
For the 600 ml sausages:

- Put de sausage in the empty tube of the caulking gun.
- Cut 10mm off the top of the sausage.
- Close the tube and install the nozzle
- Cut the nozzle diagonally at the appropriate position.

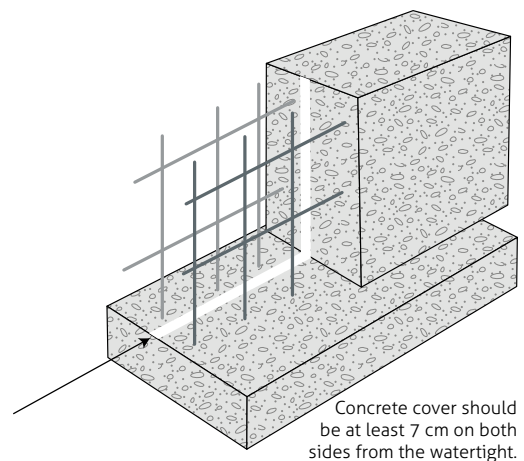
SPETEC® WT400 is applied with a caulking gun in an interrupted band (minimum 10mm wide and high), in the middle of the joint or prefab element.

Concrete cover should be at least 7 cm on both sides, in order to avoid cracks from the expansion pressure if swelling SPETEC® WT400.

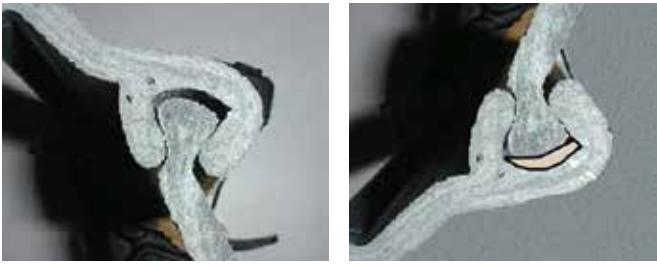
PIPE PENETRATION



COLD JOINT APPLICATION



SHEET PILE INTERLOCK



ADVICE / FOCAL POINTS

Should cure for 24 hours before concrete pouring.
Do not pour concrete directly on applied product.

TECHNICAL DATA

APPEARANCE - COMPOSITION

One component MDI polyurethane based, solvent free, hydro swelling mastic.

TECHNICAL DATA

Property	Value	Norm
Base Polyurethane Consistency	Stable Paste	
Curing System	Moisture	
Cure Skin formation (*)	120 minutes	
Hydrostatic Pressure	5 bar	
Curing Rate (*)	1,8 mm/24h	
Hardness	15 shore A	
Shrinkage	Max. 4%	
Specific Gravity	1,37 kg/dm ³	
Temperature Resistance	-30°C to +90°C	
Elasticity Modulus in film	0.34 MPa	(DIN 53504)
Slump None Tear Strength in film	Ca. 0.60 MPa	(DIN 53504)
Elongation at Break in film	>800%	(DIN 53504)
Elasticity Modulus in joint	Ca. 0.12 MPa	(ISO 839)
Tear Strength in joint	Ca. 0.20 MPa	(ISO 839)
Elongation at Break in joint	>250%	(ISO 839)
Swelling	450%	
Final Cure (*)	24 hours	
Solids	100%	

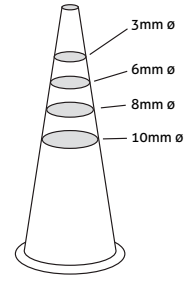
(*) These values may vary depending on environmental factors such as temperature, moisture, and type of substrate.

CHEMICAL RESISTANCE

Good overall chemical resistance.

CONSUMPTION

Average coverage depending on quality and roughness of the surface		
Nozzle diameter	Length (cartridge)	Length (sausage)
3mm	20-25m	40-50m
6mm	8-10m	16-20m
8mm	4-5m	8-10m
10mm	3m	6m



PACKAGING

Emballage



310ml cartridges

- 12 per cardboard box.
- 1 pallet = 75 cardboard boxes.
- Weight per cartridge: 0,5kg net



600ml sausages

- 12 per cardboard box.
- 1 pallet = 40 cardboard boxes.
- Weight per sausage : 0,9kg net

STORAGE AND SHELF LIFE

In unopened packaging, in dry place, between +5°C and +30°C:
Cartridges: 9 months
Sausages: 12 months
Date of Production: see packaging.

SAFETY PRECAUTIONS

Consult the Material Safety Data Sheet.

Note: the information and recommendations provided in this technical data sheet is given in good faith and based on laboratory test and on the job experience of the manufacturer. In practice, site conditions and substrates might be such that the manufacturer cannot warrant the fitness for each individual purpose. The user of the product must test the product for its intended use and ascertain himself that the product will work under the specific conditions of the jobsite. The manufacturer does not accept any liability based on the content of the technical data sheet. The user must verify that he holds the latest version of the technical data sheet. The manufacturer reserves the right to change the properties of the product. Products must be properly stored, handled and applied in line with manufacturer's recommendations. Version 1.0 Date: 12 April 2018 9:24 AM