



TEKASWELL N 2005 / N 2010

Swelling waterstops

PRODUCT DESCRIPTION AND USE

Hydroblocker Tekaswell N 2005 / N 2010 swelling waterstops are used for a systematic sealing of joints in concrete structures (figure 1). In contact with water, the tape swells and seals the joint making it waterproof.

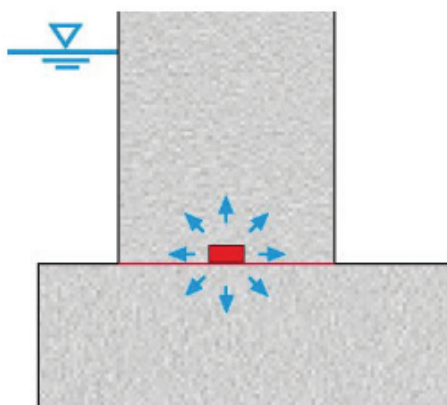


Figure 1

Advantages of **Hydroblocker Tekaswell N2005/N 2010** swelling waterstops:

- Reliable swelling properties
- Reversible swelling process
- Superb chemical resistance

Intended application:

- Sealing of joints in construction
- Construction joints between the base slab and the walls
- Construction joints between two base slabs
- Construction joints between two walls
- Installation breakthrough
- Construction joints between new and old buildings
- and similar.

Dimensions of profiles:

- **Hydroblocker Tekaswell N 2005:** 20 mm wide, 5 mm high
- **Hydroblocker Tekaswell N 2010:** 20 mm wide, 10 mm high

MATERIALS AND OPERATION METHOD

The main materials of **Hydroblocker Tekaswell N 2005 / N 2010** swelling waterstops are resistant and flexible acrylic polymers which retain water well due to their molecular structure which enables a remarkable increase in volume.

In contact with water, the volume increases three-dimensionally without any changes in the homogenous polymer matrix structure. During the swelling process, swelling waterstops exert pressure on the contact surfaces and protect the joint from water ingress.

Hydroblocker Tekaswell N 2005 / N 2010 swelling waterstops are characterized by extraordinary resistance to numerous chemicals such as motor fuel, aromatic solvents, solutions of diluted acids and alkalis, salt (sea) water, sodium-hydroxide (pH = 11-12, which corresponds to the pH value in concrete).

INSTRUCTIONS FOR USE

Storage

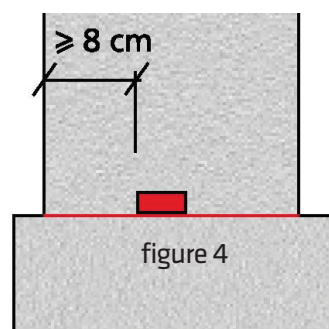
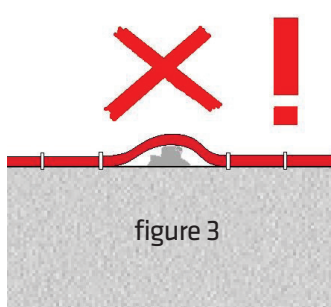
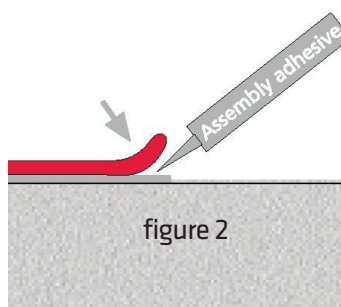
Hydroblocker Tekaswell N 2005 / N 2010 swelling waterstops should be protected from moisture.

Surface preparation

- Surfaces must be clean, free of grease, dust and loose parts.
- Before applying the swelling waterstops, remove all standing water and dry the surface, using compressed air for example.

Use

- The product should be fixed onto a concrete surface with **Hydroblocker Tekaswell Paste**, taking into account that the time necessary for the adhesive to harden is approx. 1 day. If precipitation is possible during that time, swelling waterstops must be protected to avoid premature swelling. In horizontal joints, where the formation of standing water is possible, swelling waterstops should be covered with foil. Rainwater flows out of vertical joints more quickly so the risk of premature swelling is lower.
- Swelling tapes must be bonded to the surface in a flat line (figure 3) to avoid water ingress later on.
- The thickness of the wall which is covered with concrete above the swelling tape must be at least 8 cm from the side which is exposed to water ingress (figure 4). Swelling waterstops are fixed in the centre of the wall if the wall is 30 cm wide, or, if the wall is over 30 cm wide, towards the side exposed to water. However, in that case, we have to take into consideration the aforementioned min concrete thickness which is 8 cm.
- Joints between two swelling waterstops should be placed "face-to-face".



Covering with concrete

While covering with concrete, make sure the concrete covers the swelling tapes entirely.

PACKAGING

Hydroblocker Tekaswell N 2005: rolls 20 m, 6 rolls in a cardboard box

Hydroblocker Tekaswell N 2010: rolls 10 m, 6 rolls in a cardboard box

STORAGE

Hydroblocker Tekaswell N 2005 / N 2010 must be stored in a dry place, protected from moisture.

ATTENTION

Product descriptions contain general information which is based on practical experience and conducted tests, and they do not take into account specific requirements of other applications. Observe the instructions and recommendations for use thoroughly. Figures in this sheet are given as drawings and may differ from the actual situation. If necessary, contact our technical staff.