VELOSIT® WS 801

Highly Swellable Joint Waterstop

HYCHEM

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VELOSIT WS 801 is a water swellable waterstop used for waterproofing of construction joints.

VELOSIT WS 801 is a waterstop that swells under contact with water.

VELOSIT WS 801 is the result of many years in the field testing and research. VELOSIT WS 801 is a water swellable waterstop used for waterproofing of construction joints.

TYPICAL APPLICATIONS

- Waterproofing of construction joints between different concrete pours
- Waterproofing of saw cut joints
- Waterproofing of pipe penetrations
- Waterproofing of the wall-slab joint
- Swellable waterstop for the treatment of construction joints between concrete pours. VELOSIT WS 801 swells even with sewage water containing elevated salt loads.
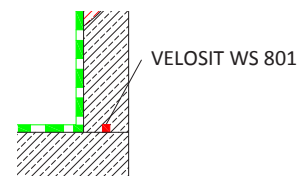
PROPERTIES

- 1000 % swelling capacity, fully reversible for an unlimited number of cycles
- Dimensional stable, no wash-out like with Bentonite waterstops
- Retarded swelling, volume increase starts several hours after water contact
- Swelling pressure of > 5 bar, extreme resitance against hydrostatic pressure
- Resists 50 m water pressure acc. to EN 12390-8

TECHNICAL DETAILS

Color	blue
Dimensions	5 x 20 mm
Weight	0.12 kg/m
Substrate temperature	5 – 35 °C
Water impermeability acc. EN 12390-8	Positive side: 5 bar
Water absorption	1.2 kg/m
Maximum swelling	potable water: 1060 % sea water: 750 % saline water: 580 %

APPLICATION GUIDELINES

Due to its enormous swelling pressure VELOSIT WS 801 must be installed min. 50 mm from each edge. Do not use VELOSIT WS 801 on concrete walls of less than 120 mm cross-section.

VELOSIT WS 801

Fixing with nails:

VELOSIT WS 801 can be nailed to the first concrete section. Shoot nails each 15 cm with a nail gun (for example Hilti DX 76) through VELOSIT WS 801 into the concrete.

Cut overlaps, crossings or terminations of the waterstop in a 45° angle and connect without a gap. Hollow areas of more than 4 mm may reduce watertightness significantly.

Plastic pipes can only be treated with VELOSIT WS 801 up to DN 50 with cold water and up to DN 25 for more than 30 °C water temperature. Due to the high swelling pressure plastic pipes may collapse under load. Larger diameters are only permitted with metal pipes.

Curing

VELOSIT WS 801 does not require curing. Avoid standing water on the waterstop as this may result in apremature swelling of the material. Because of the retarded swelling a short term contact with rain water is not a problem.

ESTIMATING

The required amount is calculated with the planned length of the joint waterproofing.

CLEAN UP

VELOSIT WS 801 does not cause any dirt. Dirty material can be cleaned with a moist cloth. Do not install material that has already swollen. Wait until the material has completely dried and achieved its original dimensions.

PACKAGING

VELOSIT WS 801 is supplied in rolls á 50 m.
5 rolls are packaged in a box (approx. 27 kg).

STORAGE

VELOSIT WS 801 can be stored in unopened original packs for 5 years at 5 – 35 °C in a dry storage place protected against sunlight.

SAFETY

Please observe the actual valid material safety data sheet and follow the described safety measures for handling of the product.

NOTE: Customer responsibility

The technical information and application advice given here is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation.

Field support, where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

If unsure contact Hychem for further technical advice before proceeding.