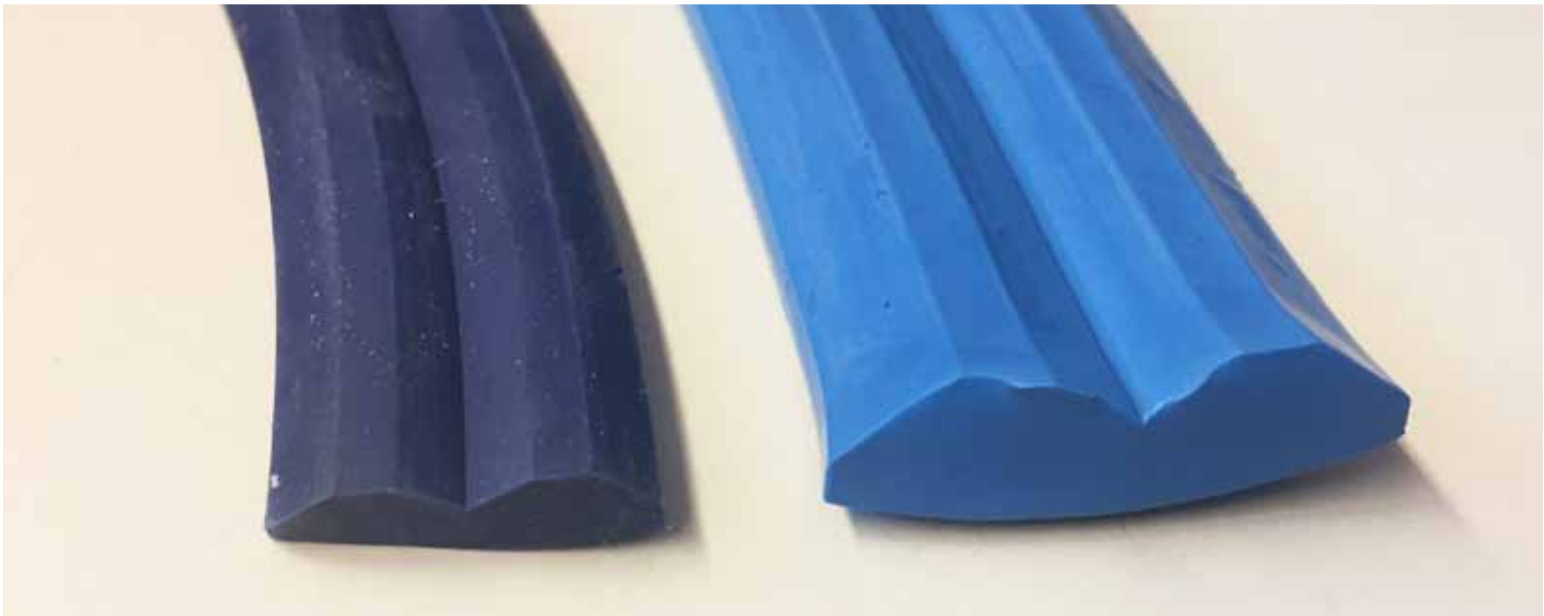


DURAHIT WS816

Highly Swellable Joint Waterstop



DURAHIT® WS816

Highly Swellable Joint Waterstop

Item No 3990

FIELDS OF APPLICATION

DURAHIT® WS816 is a water swellable waterstop used for waterproofing of construction joints. Typical application fields besides others are as follows:

- Waterproofing of construction joints between different concrete pours
- Waterproofing of saw cut joints
- Waterproofing of pipe penetrations
- Waterproofing of the wall-slab joint

CONSUMPTION

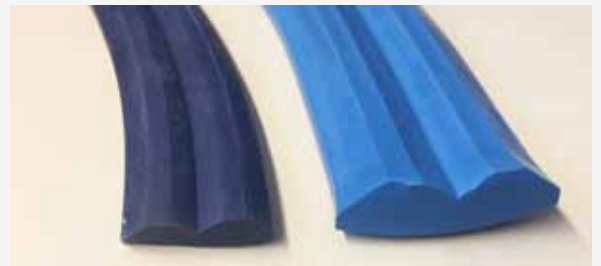
The required amount is calculated with the planned length of the joint waterproofing.

WORKING PRINCIPLE

DURAHIT® WS816 is a waterstop that swells under contact with water. It is applied on the previous concrete pour into the center of the construction or expansion joint.

DURAHIT® WS816 is either glued with an adhesive or nailed to the concrete.

- 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 resistance against hydrostatic pressure
- Resists 50 m water pressure acc. to EN 12390-8



TECHNICAL DATA

Colour	blue
State	solid
Density	1.18 ± 0.03 g/cm ³
Workability	from +5 - 35 °C
Weight	0.12 kg/m
Dimensions	5 x 20 mm
Shelf life	approx. 5 years in unopened original packs
Storage conditions	Store under cover, out of direct sunlight and protect from extremes of temperature.

PROCESSING INDICATIONS

DURAHIT® WS816 is suitable for reinforced joints in concrete bodies.

Remove separating and bondbreaking substances from first concrete section (for example foundation and slab). Surface should be open porous and load bearing. Minimal strength requirement is 15 Mpa.

Due to its enormous swelling pressure DURAHIT® WS816 must be installed min. 50 mm from each edge. Do not use DURAHIT® WS816 on concrete walls of less than 120 mm cross-section.

DURAHIT® WS816 is either glued with an adhesive or nailed to the concrete.

Cut overlaps, crossing or terminations of 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 DURAHIT® WS816 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.

DURAHIT® WS816 does not require curing. Avoid standing water on the waterstop as this may result in premature swelling of the material. Because of the retarded swelling a short-term contact with rain water is not a problem.

This product is not classified as hazardous according to the CLP regulations. See safety data sheet for further information.

PACKAGING

- 50 m roll (4 rolls are packaged in a box)
- 200 m roll

REMARKS

This information describes the application- and processing possibilities of a product and its operation principles under regular conditions. Having no influence on the further application and processing, especially in conjunction with other construction materials, the given indications are neither a warranty in respect of the product's properties or its fitness for a particular purpose nor a full instruction of use. This information, any other recommendation or verbal advice are not binding and do not infer to any liability or legal demand.

Due to continuous further development, the most recent Technical Data Sheet is valid and will be supplied on request. All orders are accepted subject to our current general terms and conditions.

Edition: 08th January 2019