

AquaproofX® 1 PLUS

Metal waterstop with reactive coating

TECHNICAL DATASHEET

Status 16.08.2024

Item no.: S03011402
S03011406
S03021406

PROPERTIES

AquaproofX® 1 PLUS is an internal water bar, one-sided coated over the entire surface for fast, simple and reliable sealing of construction and crack inducing joints. The internal water bar has an adherent, reactive polymer coating on one of its side. This coating has to be positioned towards the waterside. With **AquaproofX® 1 PLUS** NO protection foil needs to be removed!

Due to dipole molecules within the adhesive polymer coating (thickness 0.7 mm) a stable and strong connection is guaranteed between the surrounding concrete and the polymer coating. This is activated once humidity, hydration heat and alkalinity get in contact with the **AquaproofX® 1 PLUS** -coating. As long as these external influences do not affect the coating, its high adhesive properties will be protected, even without protection foil!

The high bonding characteristics of the polymer coating prevent the internal **AquaproofX® 1 PLUS** water bar from being infiltrated. As a result of this, fixation on the upper reinforcement layer is absolutely sufficient (an embedment depth of 3 cm is adequate) while assembling in a construction joint between basement slab and wall. A time consuming foundation kerb is not necessary.

The metal water bar is fixed safely in its position in a crack inducing joint with the help of preinstalled specific mounting straps. Mind that these mounting clips are positioned in the level of the crack-control joint. For the installation of **AquaproofX® 1 PLUS** – crack inducer element in site-mixed concrete you will find fixation clips on both sides of the water bar, whereas the water bar located in a prefab wall will be fixed in its position by mounting clips (minimum width of the clips 7.5 cm, maximum distance between the clips: 15cm). These clips are arranged facing towards the waterside. The length of clips depends on the thickness of the wall.

The **AquaproofX® 1 PLUS** metal water bar is resistant to all organic wastewater.

Connecting to an expansion joint is a straight forward procedure with a special connector.

APPLICATION

All typical construction joints: suitable for all typical constructions- and crack inducing joints between base/base, base/wall, wall/wall, wall/ceiling, ceiling/ceiling.

AquaproofX® 1 PLUS is available as **AquaproofX® 1 PLUS strips (2 m)** or **AquaproofX® 1 PLUS Set roll (6 m)** including all relevant fixation material.

TECHNICAL DATA

Element lengths:	2 m – stripe 6 m – coil
Width:	140 mm, respectively 100 mm for AquaproofX® 1 PLUS with integrated base
Thickness:	1.2 mm (0.5 mm metal sheet; 0.7 mm coating)
Temperature resistance:	-20°C / +70°C
Working temperature:	-10°C / +40°C

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PACKAGING & STORAGE

2 m – strips
6 m – roll

bundle: 30 m
carton: 6 m

pallet: 900 m
pallet: 504 m

Special dimensions are available on request. **AquaproofX® 1 PLUS with integrated base** can only be delivered in 2,0 m - strips.

AquaproofX® 1 PLUS has to be stored in a dry place and be protected of any mechanical damage.

INSTALLATION

The metal water bar **AquaproofX® 1 PLUS** is positioned, with the polymer coating facing towards the water side, along the middle of the joint (base to wall, wall to ceiling), running between the reinforcing rods and fixed in place with the ready-made fixing brackets (around 1 pcs. per metre).

AquaproofX® 1 PLUS with integrated base is simply positioned and secured in place by bending the integrated strips around the rebars.

In crack-control joints **AquaproofX® 1 PLUS** is fixed safely in its position along the middle of the joint by preinstalled mounting clips. Mounting clips are locked per impact anchors in a prefab wall at the exterior side wall. In site-mixed concrete walls the mounting clips are locked over binding wires at the exterior reinforcement layer.

Please mind the minimal distance of 3 cm to the reinforcement. **AquaproofX® 1 PLUS** sections are butt joined together and secured with the especial **AquaproofX® 1 PLUS overlap strips**. After the removal of the foil of the overlap strip this will be adhered on the backside of the butt joined **AquaproofX® 1 PLUS**.

With **AquaproofX® 1 PLUS** NO protection foil needs to be removed. An especial concrete contact foil will effectively prevent the **AquaproofX® 1 PLUS** sheets or rolls to stick together during transport and storage. The concrete contact foil will dissolve automatically after the concrete pour.

Curves as well as corners are bent into position on-site. Damaged or dirty sheets must not be installed and have to be changed.

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ACCESSORIES

Item no.: S03510155	Omega fixing clip, 155 mm height
Item no.: S03540030	Metal waterstop fixing bracket
Item no.: S03530001	Dilatation joint connector
Item no.: S03090001	AquaproofX® 1 PLUS overlap strip 200x140 mm

Note:

The information on this data sheet is based on our experience and given to the best of our knowledge, but is not legally binding. Recommendations, which are at variance with those stated in this data sheet, are only binding for us, when confirmed in writing. The manufacturer is not responsible for damages resulting from the misuse or incorrect storage of the product. For the accuracy of this information we are liable within the scope of our delivery and service conditions. Creation date: 08/2024