

# PolyproofX<sup>®</sup> 1 Injekt

Hydrophilic injection hose system

## TECHNICAL DATASHEET

Status 30.07.2020

Item no.: S04610056  
S04620040

## PROPERTIES

**PolyproofX<sup>®</sup> 1 Injekt** is a combination of two active certified joint sealants: the certified injection hose **WaterproofX<sup>®</sup> 100** and the certified chemical hydrophilic water bar **PolyproofX<sup>®</sup> 1**.

Within the system the hydrophilic water bar **PolyproofX<sup>®</sup> 1** takes on the part of the immediate sealing. Due to the swelling pressure caused by swelling, the water bar with its TPE seals safely and reliably the joint. If required the unique injection hose **WaterproofX<sup>®</sup> 100** which is located in the core of the hydrophilic water bar, can be injected several times.

Even lengths of 30 m can be injected without any problems. The open construction of the hydrophilic water bar guarantees that the injection hose is fully flush-lying in the joint. Thus grouting material can disperse into the complete surface area of the joint.

## APPLICATION

**PolyproofX<sup>®</sup> 1 Injekt** is a combined hydrophilic injection for sealing construction joints in concrete structures. The sealing system must be installed fully flush-lying in a construction joint either in between basement slab and wall, between two wall or slab sections or in the joint between wall and ceiling. Even after numerous wet/dry cycles, the **PolyproofX<sup>®</sup> 1 Injekt** system will function properly.

**PolyproofX<sup>®</sup> 1 Injekt** is available in a handsome **PolyproofX<sup>®</sup> 1 Injekt Set 5x8 m**, including all required accessories.

## TECHNICAL DATA

Profile, external dimension:	19 x 23 mm
Profile, dimension injection hose:	external: 13 mm, internal: 8.3 mm
Consistency hull:	plastic (thermoplastic)
Colour core:	dark blue
Colour hull:	light blue
Swelling capacity:	approximately 450%
Swell retardation:	24 hours

## PACKAGING & STORAGE

### Dimension

19 x 23 mm	carton: 40 m (5 coils à 8 m)	pallet: 720 m
Coil: 56 m		

**PolyproofX<sup>®</sup> 1 Injekt** has to be stored in a dry place and protected against mechanical damage.

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## INSTALLATION

The underground surface has to be even, free of loose particles and must not show any sharp-edged displacement. Before installing ensure that ice, standing water and cement sludge are removed.

**PolyproofX<sup>®</sup> 1 Injekt** is positioned along the middle of the construction joint on top of the first section, running between the reinforcing rods, fixed with **Contact adhesive SuperX 1** or optionally with clamps. When fixing with clamps, the distance in between the clamps should not be beyond 15 cm to ensure that **PolyproofX<sup>®</sup> 1 Injekt** is securely fixed in place and will remain so during concreting.

Lightly pushing the water bar into the **Contact adhesive SuperX 1** ensures optimum fixing.

The openings of the hose must be lead through at the right angle from the construction. The hose must be connected to the **Varioclix<sup>®</sup>**, which is either fixed to the formwork or fixed on the reinforcing bar. The openings of the **Varioclix<sup>®</sup>** must be easily accessible and carefully labelled to ensure that the correspondent hose can be injected later on.

Uneven surfaces can be smoothed with **Polymer-swellingpaste SX<sup>®</sup> 100**. The minimal covering of concrete must be at least 8 to 10 cm on all sides. In places of overlaps and circuit points **PolyproofX<sup>®</sup> 1 Injekt** has to be bonded in parallel minimum 10 centimetres.

In case of mechanical damage to the system (precociously swelling, folding, cuts, holes) the system can longer be applied. Such damaged systems may not be installed and must be replaced.

## ACCESSORIES

Item no. S04620040	PolyproofX <sup>®</sup> 1 Injekt Set 5x8 m
Item no. S04900001	Hose connector
Item no. S04820050	PVC hose white
Item no. S04700000	Varioclix <sup>®</sup>
Item no. S04701005	Varioclix <sup>®</sup> with metal strip
Item no. S04916022	PolyproofX <sup>®</sup> 1 Injekt clamp 22 mm
Item no. S02830290	Contact adhesive SuperX 1 cartridge 290 ml
Item no. S02410290	Polymer-swellingpaste SX <sup>®</sup> 100 cartridge 290 ml
Item no. S04958055	Grouting nipple M8/ 55 mm conical-headed nipple

Note:

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