

# Bentoproof Injekt PLUS

## TECHNICAL DATASHEET

Stand 28.08.2018

### PROPERTIES

**Bentoproof Injekt PLUS** is a combination of two active joint sealant systems including a protective coating for sealing construction joints in concrete structures.

**Bentoproof Injekt PLUS** contains two components: the certificated injection hose **WaterproofX® 1** and the certificated hydrophilic water bar **Bentoproof black PLUS**. This combination guarantees a maximum of reliability and impermeability.

### APPLICATION

Within this system the bentonite hydrophilic water bar takes on the immediate, sealing task. The material changes from its solid state into a plastic compound, allowing it to penetrate the finest of cracks and cavities. If increasing of the volume is obstructed, a swelling pressure will be created which finally engages the sealing. The injection hose **WaterproofX® 1** which is placed in the core of the bentonite hydrophilic water bar can be injected additionally if necessary (numerous injection cycles are possible). Thus this system fulfills the highest quality demands.

The protective coating of **Bentoproof Injekt PLUS** prevents the bentonite water bar to start swelling untimely. Thus the installation is totally independent on atmospheric conditions. The hardening process of the concrete will dissolve the protective coating.

**Bentoproof Injekt PLUS** is available in a handsome **Bentoproof Injekt PLUS Set 5x8 m**, including all required accessories.

#### Grouting materials:

PUR resin, PUR foam resin, polymer gel matrix, epoxy resin, fine cement.

### TECHNICAL DATA

Profile:	external dimension: 20 x 25 mm core dimension: 13 mm external, 6 mm internal
Consistency hull:	ductile
Colour:	hull: black core: blue
Temperature resistance:	-20°C / +70°C

### PACKAGING & STORAGE

20 x 25 mm                      carton: 40 m (5 coils à 8 m)                      pallet: 720

**Bentoproof Injekt PLUS** has to be stored in a dry place and protected against mechanical damage.

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### INSTALLATION

The concrete surface must be dry, free of dust, forming oil rest and loose particles and must not show any sharp-edged displacement. Before installing **Bentoproof Injekt PLUS** ice coverings, standing water and cement sludge have to be removed.

**Bentoproof Injekt PLUS** can either be installed with clamps, with **Contact adhesive SuperX 1** or with a special fixing mesh on the first concrete section in the middle of the joint in between the reinforcements. The distance in between two neighboring clamps is depending on the state of the surface. The maximum distance of 15 cm must not be exceeded to ensure that **Bentoproof Injekt PLUS** 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. If **Bentoproof Injekt PLUS** is fixed with the special fixing mesh, wall plugs arm the mesh on its external section.

The ventilation edges are driven right-angled out of the construction. They are joined together at the **Varioclix®**, which can be installed on the reinforcement or be fixed on the formwork. A check mark of the edges and a protected position of the circuit points have to be assured for the injection of the hose at a later date.

The minimal covering of concrete must be at least 8 to 10 cm on all sides. This ensures that the necessary expansion and sealing effect can be achieved.

Unevenness can be adjusted with the **Polymer-swellingpaste SX® 100**. With the application of the bentonite hydrophilic water bar uneven sections on the concrete surface are leveled out. Thereby a complete contact of the concrete surface and the combined swell- injection system can be achieved. At sections and circuit points **Bentoproof Injekt PLUS** is installed 10 cm flush next to each other.

Damages on the system (swelling before installation, buckling, holes, cuts, etc.) may lead to uselessness which makes the system to be replaced before being installed.

For the injection, the temperature of the parts as well as outside has to be  $> +5^{\circ}\text{C}.$

### ACCESSORIES

Item no. 30106-8	Bentoproof Injekt PLUS Set 5x8 m
Item no. 30101	fixing clamp
Item no. 30302	fixing mesh
Item no. 30307	Contact adhesive SuperX 1
Item no. 30420	Polymer swelling paste SX® 100
Item no. 10300	Varioclix®

Note:

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