



# Bentoproof Injekt PLUS

Combined swell/injection system with protective coating

## 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<sup>®</sup> 1 and the certificated hydrophilic water bar Bentoproof black. 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<sup>®</sup> 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.

## Technical features:

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

## Grouting materials:

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

## Packaging:

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



### Storage:

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

### 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<sup>®</sup>, 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 swelling paste SX<sup>®</sup> 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°C.

### Accessories:

Order no 30101	fixing clamp
Order no 30302	fixing mesh
Order no 30307	contact adhesive SuperX 1
Order no 30420	Polymer swelling paste SX <sup>®</sup> 100 - 310 ml - cartridge
Order no 10300	Varioclix <sup>®</sup>

#### 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.