



TEKAINJECT W

Hydroinsulation injection fluid

PRODUCT DESCRIPTION AND USE

Hydroblocker Tekainject W is a transparent aqueous solution of siliconates and chemical additives, intended for horizontal hydroinsulation of damp walls with injection procedures. It is used to insulate old damp walls in which capillary water is spreading upwards.

CHARACTERISTICS

Property	Declared value
Appearance	Colourless liquid
Density, 20°C	approx. 1,05 kg/dm ³
pH	13 ± 1

INSTRUCTIONS FOR USE

1. Because of its special structure, **Hydroblocker Tekainject W** easily permeates even the smallest pores and capillary passages in damaged walls. When injected into the wall, it forms a layer of material with hydrophobic properties, i.e. with a strongly reduced capillary water absorption. The humidity content in the wall is thus reduced by ca. 70 – 90 %.
2. The time needed for reaction depends on the type of the material, relative humidity, temperature of the environment and quantity of CO₂ in the air.
3. The boreholes through which **Hydroblocker Tekainject W** has been injected should be left open for ca. 4 weeks and then filled with hydrophobic mortar (mortar +Cementol Hidrofob E water-retaining admixture, which reduces the capillary absorption of mortar).
4. When the wall is at least partially dry, the old damp plaster, which has been removed before the beginning of the repairs, is replaced by new hydrophobic plaster with the addition of Cementol Hidrofob E.

Warning

- **Hydroblocker Tekainject W** is not suitable for insulating walls in which binding mortar is still alkali (i.e. freshly constructed walls).
- Before beginning the repairs, we have to make sure whether the damage is caused by capillary water or whether a different cause can be found (e.g. damaged shafts, plumbing or drainpipes, leaking roofs, decaying plaster or mortar, etc.).
- The injection has to be carried out by a team of professionals.

CONSUMPTION

- Approx. 8 – 10 l per m of a 50 cm-thick wall, depending on the type and porosity of the wall: type of brick or stone, grade of mortar damage, etc.

PACKING

- 10 kg, 60 kg cans

STORAGE

- Store the product in tightly closed and undamaged packaging, protected from damage, freezing and high temperatures.
- In tightly closed and undamaged packaging, stored at normal temperatures, the shelf life of the product is min.2 years from the production date.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

SAFETY PRECAUTIONS

Hydroblocker Tekainject W is a corrosive product which may burn the skin, irritate mucous membranes and cause serious damage of eyes. When handling the product, protective gloves and goggles should be used. In case of skin or eye contact, wash the affected skin area immediately and thoroughly rinse the eyes with water for at least 15 minutes, then seek medical advice. Clothing and footwear contaminated with Hydroblocker Tekainject W have to be removed.

General instructions for safe work with chemicals should be observed:

- Eating, drinking or smoking during work is prohibited.
- After finishing work, hands should be thoroughly washed with water.

NOTE

Instructions are given on the basis of examinations and technical experience of the firm. Due to specific conditions and work methods, preliminary tests are advised for every type of use. Since we cannot influence the course of work, we cannot be held responsible for its quality.

INSTRUCTIONS FOR INJECTING DAMP WALLS WITH HYDROBLOCKER TEKAINJECT W

1. Old, damp plaster should be removed at least up to the level to which capillary water has spread inside the wall. However, it is recommended to remove it up to 30 cm above this level.
2. Boring is carried out in two rows in a zigzag distribution, as shown on figures below (boring brick or stone wall).
 - *Row 1:* min. 15 cm above ground level
 - *Distance between rows:* ca. 10 cm
 - *Distance between two adjacent boreholes in a row:*
 - ca. 15 cm (for porous bricks)
 - ca. 7,5 cm (for mortar between non-porous bricks or stones)
 - *Diameter of boreholes:* 25 – 30 mm
 - *Angle of boring:* 30° - 40° towards the other side of the wall
 - *Depth of boreholes:* the bottom of the hole should be ca. 7 – 10 cm distant from the other side of the wall
3. Dust has to be blown or vacuumed out of the boreholes **Hydroblocker Tekainject W** is poured into the wall (using either gravitation or low pressure) for as long as the wall can still absorb it. If pressure is used to perform the injection, its intensity depends on whether joints or bricks are being injected and on how porous they are. A fall in pressure means that the liquid is flowing away (into cracks etc.)
4. Porous surfaces and empty joints below and in the area of injecting have to be packed with the Hydroblocker Hidroizol N or S waterproofer to prevent **Hydroblocker Tekainject W** from leaking out of the wall.
5. Walls which are over 50 cm thick have to be injected from both sides.
6. After a complete impregnation of the wall, boreholes should be left open for ca. 4 weeks and then filled with hydrophobic mortar (mortar + Cementol Hidrofob E water-retaining admixture, which reduces the capillary absorption of mortar).
7. After the wall has dried, the old damp plaster, which has been removed before the beginning of the repairs, is replaced by new hydrophobic plaster with the addition of Cementol Hidrofob E.