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Injektil Super

structural waterproofing | moisture | injection agent | silicifying properties



Short information

- hydrophobic injection agent
- for reconstruction and material solidification of masonry and concrete walls
- forms chemical horizontal barrier against rising dampness
- self-dosing when used with filling sticks

Consumption

- depending on the absorbency of the substrate, approx. 15 kg per m2 of masonry cross-section.

Storage note

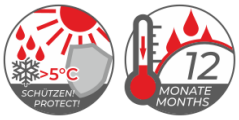
- store dry and cool, but frost-free
- in originally sealed containers storable for 12 months
- keep away from sources of ignition!

Complementary products

Priming
- BORNIT® Anti Sulphate

Follow-up products
- BORNIT® Filling Sticks
- BORNIT® Empty cartridge with spout

Content	Item	EAN code	Colour	sufficient for:
Injekt Super 10 kg / canister 60 canister (600 kg) / euro pallet	6900002692	4 017228 00446 4	orange-transparent	approx. 0,67 m2 per m2 of masonry cross-sectio
Injekt Super 20 kg / canister 24 canister (480 kg) / euro pallet	6900002691	4 017228 00463 1	orange-transparent	approx. 1,3 m2 per m2 of masonry cross-section



Areas of application

For drill-hole injection for subsequent waterproofing in masonry, concrete and plaster against rising and creeping moisture. Applicable on the inside and on the outside. The deeply effective injection agent is also used for renovation and material solidification in masonry and concrete walls.
Use of the injection agent is possible up to degrees of moisture penetration of max. 65 % and a max. wall thickness of 0.70 m.

Product data in brief

Base	special silanes
Density at +20 °C	approx. 1.05 g/cm³
colour(s)	light pink
Consistency	liquid
Processing temperature (ambient and substrate)	from +5 °C
PH-value	11.0
storage	store dry and cool, but frost-free
Shelf life	in originally sealed containers storable for 12 months keep away from sources of ignition!
Consumption	depending on the wall thickness

Type and properties

BORNIT® Injektil Super is a liquid, water-thin injection agent based on a water-repellent siliconate with silicifying (construction material solidifying) properties.
The active agents penetrate deeply into the substrate by gravity and react with the existing binding agents into water-insoluble compounds. The capillary pore structure of concrete and masonry is closed and rendered water-repellent. With the chemical-physical petrifaction process, beside the moisture barrier introduced vertically or horizontally, the stability of concrete and masonry is increased and an additional protection against aggressive substances achieved. BORNIT® Injektil Super does not damage reinforcement steel.Contrary to other non-pressurised injections, small drill-hole diameters are sufficient for BORNIT® Injektil Super, since the holes cannot become encrusted due to permanent seepage of the liquid.
The practical 0.55 kg cartridge with the integrated injection hose provides control of the quantities consumed per drill-hole. In order to avoid losses of BORNIT® Injektil Super, the use of BORNIT® Filling Sticks (length: 45 cm) is recommended. Therewith, a uniform and targeted distribution of BORNIT® Injektil Super in the construction material is achieved. Cavities and cracks are bridged. Easy handling without special equipment characterises the BORNIT® Injektil Super method.

Advantages

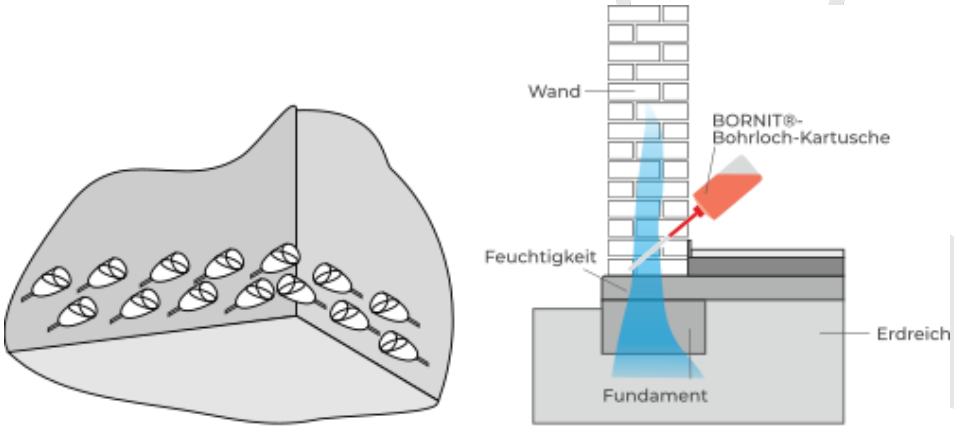
·easy to handle, since manufactured ready for use
·very good penetrating capability
·efficient to apply due to low equipment, material costs and effort

Surface

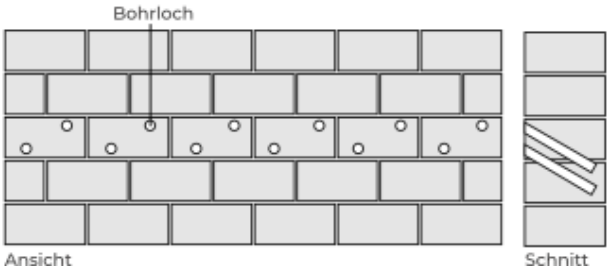
Should fractures, voids or open joints be noticed after drilling the holes, the holes must be filled with a drill-hole suspension, wherein the thin liquid mortar must be pressed in. Prior to thorough hardening (after approx. 30 minutes to max. 3 hours), the holes must be drilled again. Upon using BORNIT® Filling Sticks, filling with a drill-hole suspension can be omitted in many cases. The soaked filling sticks can remain in the drill-hole after saturation of the construction material with BORNIT® Injektil Super.

Processing

For horizontal waterproofing, holes with a diameter of 12-16 mm are drilled above ground level or, upon excavation, above the basement floor, at an angle of approx. 40 ° downward down to approx. 5 cm from the end of the wall, with a distance of 7-12 cm from one another, respectively offset towards the top or bottom, resp. If BORNIT® Filling Sticks are used, a diameter of 14 mm is sufficient and appropriate. The horizontal joints should be intersected. The treatment can be optionally performed on the inside or on the outside. With wall thicknesses over 50 cm, it is recommended to drill the holes from both sides towards the centre. For distances of the drill-holes and diameters, see table.
The drill-holes are cleaned and rinsed with water. Thereafter, insert BORNIT® Injektil into the drill-holes as shown in the drawing.



Skizze: Einfache Anwendung



Consumption depends on the absorbency of the masonry and can thus, in individual cases, deviate considerably from the quantities given. In case of strong absorbency of the construction material, the distance between the drill-holes can be extended, with lesser absorbency reduced. After 1-5 days, once saturation has been achieved, the cartridges must be removed and the drill-holes closed with cement mortar (possible coordinated in colour) or with a drill-hole suspension. Not yet empty cartridges can be reused in other locations.
If the plaster is salt-damaged, it should be knocked off after the treatment and replaced with BORNIT® Renovation Plaster.
Structurally damaging salts must be deactivated with BORNIT® Anti Sulphate. Do not apply at temperatures below +5 °C.

Distance of the drill-holes

Wall thickness	Drill-hole-Ř without filling sticks	Drill-hole-Ř with filling sticks	Distance	Drillholes	Average consumption per m	Consumption of filling sticks L=45 cm/m
11.5 cm	12 – 16 mm	14 mm	12.5 cm	9 pcs	1.725 kg =	4 cartridges
17.5 cm	12 – 16 mm	14 mm	12.5 cm	9 pcs	2.625 kg =	5 cartridges
24.0 cm	12 – 16 mm	14 mm	11.0 cm	10 pcs	3.600 kg =	7 cartridges
30.0 cm	12 – 16 mm	14 mm	11.0 cm	10 pcs	4.500 kg =	8 cartridges
40.0 cm	12 – 16 mm	14 mm	9.0 cm	12 pcs	6.000 kg =	11 cartridges
50.0 cm	12 - 16 mm	14 mm	8.0 cm	15 pcs	7.500 kg =	14 cartridges

Important note
The silicification process starts after a few days. Several months could pass until completion of the silicification. Thereafter, the visible drying off of the construction material starts, since no water can penetrate anymore. For facade treatment, it must be observed in any case, that no moisture can penetrate from the side, e.g. by driving rain.
Modes of action and methods are described in the WTA datasheet 4-4-04/D “Masonry injections against capillary moisture”, including the required accompanying measures.

Consumption

depending on the absorbency of the substrate, approx. 15 kg per m2 of masonry cross-section.

Health and fire protection, occupational safety

To ensure safe handling of the product, the physical, safety, toxicological and ecological information provided online, the information in the current safety data sheet and the additional information on the label must be read and followed before purchasing or using the product! The applicable regulations, ordinances and laws must be complied with.

In case of doubt, please contact the BORNIT® application technology department or the BORNIT® service hotline on +49 375 2795 123.

Warning notices

UN-number	No dangerous good in sense of these transport regulations.
Hazard pictograms	
Signal word	Danger
Hazard-determining components for labelling	Kaliummethylsilantriolat
H-records	H314: Causes severe skin burns and eye damage.
P-records	P102: Keep out of reach of children. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302 + P352: IF ON SKIN: Wash with plenty of water and soap. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313: If skin irritation occurs: Get medical advice/attention. P337 + P313: If eye irritation persists: Get medical advice/attention.
Recommended, personal protective equipment:	

Disposal note

Only recycle completely empty, cleaned containers. Material residues can be disposed of according to AVV-ASN: 060205* (other bases).

Note

This data sheet supersedes all previous technical information relating to the product. Such information is therefore no longer valid. The details have been compiled in accordance with the latest state of the art in application technology. Please note, however, that depending on the condition of the building, it may be necessary to deviate from the working methods recommended in this data sheet. Unless otherwise agreed in an individual contract, all information contained in this data sheet is non-binding and therefore does not constitute an agreed product specification. We reserve the right to make changes to the information contained in this data sheet at any time. We recommend that you check our website www.bornit.de for any updates.

The product illustrations are to be regarded as examples. No legally binding claim can be derived from them. We reserve the right to make changes to the product's appearance.

Our packaging complies with the relevant legal requirements and with Regulation (EU) 2025/40 on packaging and packaging waste (PPWR). The technical documentation in accordance with Annex VII is available and can be provided on request by emailing info@bornit.de.