

Get it done:

Application instructions

Masonry injection for cross-section waterproofing classic procedure without void filling





Masonry injection for cross-sectional waterproofing

	Long-lasting pore-narrowing effect, simple, water-repelling
Insulation:	Kiesol
	WP Sulfatex
	WP DS Level
Injection material:	Kiesol
Sealing off drill holes:	BSP 3 / 6, WP DS Level

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① PRIMING

Apply an even layer of Kiesol (diluted 1:1 with water) to the prepared substrate. Pre-wet highly absorbent substrates with water.

Application rate:

Approx. 0.1-0.3 kg/m²
(diluted 1:1 with water)



② BONDING LAYER

Within the reaction time of Kiesol, use a slurry brush to apply the bonding layer of WP Sulfatex.

Application rate:

Approx. 1.7 kg/m²/mm layer thickness



③ LEVELLING

Use WP DS Levell to level out any unevenness while the material is still wet.

Application rate:

Approx. 1.7 kg/m²/mm layer thickness

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④ CREATING DRILL HOLES

After the injection region has been plugged, drill holes into the masonry at a spacing of max. 12.5 cm and with a diameter of 30 mm at an angle of up to max. 45°.



⑤ CLEANING THE DRILL HOLES

Use oil-free air to blow any drilling dust out of the holes.



⑥ INJECTING THE MATERIAL

Use the Kiesel metering cartridge or a surface sprayer to fill the drill hole with Kiesel under gravity. If necessary, allow penetration to continue over a longer period of time.

Application rate:

Approx. 1.5 kg/m per 10 cm wall thickness
(can vary significantly depending on porosity of masonry)



⑦ DRILL HOLE SEALING

Once injection is complete, fill the drill holes with BSP 3 or BSP 6 and seal off with WP DS Levell.

Application rate for BSP 3/6: Approx. 1.2 kg/l void
WP DS Levell: As needed

⑧ SUPPORTING MEASURES

If necessary, apply an angle fillet, if needed, in accordance with WTA Code of Practice 4-6.

Use WP Sulfatex to create a vertical waterproofing strip. Apply to at least 30 cm above the injection level.



The classic procedure

Simple, long-lasting, approved

Dual effect: Narrows pores and repels water

When Kiesol is used in an injection procedure, not only are pores and ducts in the masonry made water-repellent, they are also closed – or at least significantly narrowed. This means that capillary water transport is no longer possible. The first test certificate for Kiesol dates back to 1965 and was issued by the materials testing institute of North Rhine-Westphalia. It certifies the effectiveness of Kiesol against rising damp (capillary suction capacity).

Decades of experience with Kiesol, along with the present-day WTA certificates, have demonstrated that the active concentrate can penetrate deeply and uniformly into the masonry. Injection under gravity is possible up to moisture saturation levels of 80%. Pressure injection is needed at higher levels. On hollow masonry, the advanced procedure with Kiesol iK is used in combination with the shrinkage-compensated, highly sulphate-resistant drill hole suspension BSP.

Application examples

- ✓ Decades of successful use as a system for masonry
- ✓ Porous, mineral building materials such as sandstone, fired and sand-lime brick
- ✓ Subsequent cross-sectional waterproofing of masonry under gravity up to 80% moisture saturation
- ✓ Subsequent cross-sectional waterproofing of masonry at low pressure up to 95% moisture saturation

Properties

- ✓ Boosts strength
- ✓ Narrows pores
- ✓ Repels water
- ✓ Inhibits masonry salt

Products used



Kiesol

Single-component, solvent-free, strengthening silicification concentrate
Art. no. 1810



WP Sulfatex

Rigid mineral waterproofing slurry with high sulphate resistance
Art. no. 0430



WP DS Levell

Waterproofing filler with high sulphate resistance
Art. no. 0426



BSP 6

Flowable mineral filler and injection mortar
Art. no. 0309



BSP 3

Flowable mineral filler and injection mortar
Art. no. 0312

For more information on the application of the products, visit www.remmers.com

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Subject to changes. The current version of the applicable Technical Data Sheet is relevant for legal matters.

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