

Technical Information Sheet Article No. 0430

Sulfatex Grout

High quality, sulphate resistant waterproofing grout for waterproofing buildings in the Kiesol System. For use indoors and outdoors.

Range of use

- For subsequent waterproofing of cellars from the interior against ground damp, non-standing and standing seepage water, water pressure and water from behind
- For the restoration of old buildings, particularly damp plinths and cellar walls, for large surface moisture penetration. Also for vertical waterproofing in areas where subsequent horizontal barriers are placed.
- For waterproofing new buildings (cellars) and building elements against ground damp (moisture) from the exterior as well as against rising damp in the positioning areas of walls with good adhesive shear strength.
- As protection from moisture from behind when new buildings are waterproofed with crack-bridging, Remmers Bitumen Thick Coatings or Spray-On Waterproofing.
- For coating manure basins and sewage treatment plants when combined with Remmers Kiesol and Elasto Grout.
- In a system for substrates with salt loads
- For mineral waterproofing in potable water areas.

Characteristic data of the product

| | |
|--|---|
| Mixing ratio: | 5.0 to 5.3 litres of water to 25 kg powder |
| Water added: | 20 - 21 % |
| Working time: | 60 minutes |
| Working temperature: | +5 °C to +30 °C |
| Consistency: | for brushing, grouting |
| Compressive strength: | 28 days approx. 30 N/mm ² |
| Tensile bending strength: | 28 days approx. 6 N/mm ² |
| Capillary water absorption: | w-24 < 0.1 kg/m ² · h ^{0.5} |
| Water vapour diffusion: | μ value < 200 |
| Resistance to chemicals according to DIN 4030: | up to very strong |

Property profile

- Remmers Sulfatex Grout is a high quality, cement bound building waterproofing material with outstanding product properties.
- Waterproofed in just one day
- Easy and fast to work on sand-lime brick, brick and concrete substrates
- Highly water impermeable under water pressure (also water pressing from behind!)
- Deep protection of the waterproofed substrate through silicification with Kiesol.
- Adheres extremely well to the substrate, forming a bond
- Particularly resistant to mechanical and chemical action
- Water, frost and sulphate resistant
- Promotes drying since vapour permeable
- Tests reports and test certificates according to: "Guideline for the Planning and Execution of Waterproofing on Building Elements Using Mineral Waterproofing Grouts"
- Waterproofing against pressure water from behind
- General Building Inspectorate Test Certificate
- Test Certificates in compliance with DVGW Code W 347 and W 270 [German Technical and Scientific Ass. for Gas and Water] for potable water areas

Preparing the substrate

All wall and floor substrates must be sound, load-bearing, free of substances with a separating effect and loose soft material. Customary substrates are concrete, masonry work and render in group P II and P III. When waterproofing in indoor areas, remove **old render** at least 80 cm above the visible damp zone. Interior waterproofing must be continuous and therefore **interior dividing walls** must be separated from exterior walls the width of a stone as far up as the render was removed. A 20 cm wide strip of the screed in the **floor-wall connection area** should be removed or, if the cellar slab leaks, completely removed. **Partial leaking areas in masonry work**, e.g. soft joints, the connection joint to the floor, horizontal joints with a barrier membrane, open cracks should be chiselled out at least 2 cm deep and pre-sealed with Remmers Kiesol and Aida Waterstop. **Cracks in concrete** and, if necessary, the floor connection should be injected with PUR Injection Resin if there is water inrush, otherwise with PUR Injection Resin 2K. Depending on moisture content and absorbency, the **substrate may need to be pre-wet**. Highly absorbent masonry work (e.g. dry sand-lime brick) should be pre-wet several times in advance! **The waterproofing should always be applied to matt damp but not shiny wet substrates.**

Waterproofing and restoring

Deep protection priming: Kiesol diluted 1:1 with water is sprayed over the entire surface of the matt damp, clean substrate, avoiding excess material running down. After a short waiting time (at least 15 min.), work can be continued.

Levelling: In areas where there are indentations, e.g. broken out stone, chased out soft joint areas, missing areas, gravel pockets or coarse surface texture, Sulfatex

Grout is brushed on as a bonding layer.

Waterproofing Filler is applied directly, **wet-on-wet**, to the adhesive grout (even several centimetres thick). The repaired areas can be immediately levelled with a float, trowel, grated scraper or jointing iron to achieve a closed surface which is later worked over with Remmers Undercoat Render. Place a **sealing cove** made of Waterproofing Filler along the wall-floor connection over the fresh layer of Sulfatex Grout. Work can be continued after 15-30 minutes.

Waterproofing: Pour **5.0 to 5.3 litres of water** into a clean container. Add **25 kg Sulfatex Grout** and mix intensively with mixing equipment for approx. 3 minutes until homogenous. Allow to mature for 2 minutes; then stir until the proper consistence for working has been achieved. The quantity of water to be added should be observed! Immediately after mixing, Aida Sulfatex Grout is applied to the entire surface with a soft brush in a grouting procedure. After approx. 20 minutes (depending on the substrate), a second layer of grout is applied as before. In case of standing seepage water or water pressure loads, apply three layers of Aida Sulfatex Grout.

The grout should be applied with a minimum application rate of 2.0 kg/m² (> 1 mm thick layer) per layer.



The total thickness of the waterproofing grout should not exceed 5 mm in any place.

Water load and layer thickness:

| Type of water load | Minimum thickness layer in mm | Application rate kg/m ² | |
|--|-------------------------------|------------------------------------|--------|
| | | Fresh mortar | Powder |
| Ground damp, non-standing seepage water 2 layers of grout | 2 | 4 | 3,2 |
| Standing seepage water and water pressure 3 layers of grout | 3 | 6 | 5 |

Since future water loads may be different, we recommend a 3 mm thick layer.

Horizontal waterproofing in wall positioning areas:

1 silicification treatment*
+ 1 grout application

Protection against moisture from behind:

In sealing cove areas:
1 silicification treatment*
In plinth areas:
1 silicification treatment*
+ 1 grout application

Basic mineral waterproofing in floor areas:

1 silicification treatment*
+ 1 grout application

* A silicification treatment consists of spraying on Kiesol diluted 1:1 with water, a waiting time of at least 15 min. and then application of a layer of Remmers waterproofing grouts, wet-on-wet.

For expansion-capable, vertical exterior waterproofing against ground damp or standing seepage water, use Remmers Bitumen Thick Coatings according to directions. Before the thick coating is applied, Sulfatex Grout must have set or be air dry.

For waterproofing in potable water areas, execute with three layers of Sulfatex Grout, wet-on-wet, as described above. After a waiting time of 3 days, silicify the surface again with Kiesol (approx. 0.3 kg/m² Kiesol).

Notes

Do not use at temperatures below +5 °C or on frozen substrates. After the waterproofing has been concluded, check for missing areas. Protect from weather (sun, wind, rain, frost) for 24 hours and keep damp (e.g. by covering with plastic sheet).

Observe the "Guideline for Planning and Execution of Waterproofing on Building Elements with Mineral Waterproofing Grouts" issued by Deutsche Bauchemie as well as the WTA Code of Practice "Subsequent Waterproofing of Building Elements with Ground Contact". Attention should also be paid to performance specifications and building site conditions. When restoring old buildings, other sources of moisture should also be remedied, e.g. rising damp, by injecting with Kiesol or waterproofing wall surfaces in contact with the ground from the exterior with Remmers Bitumen Thick Coatings.

Tools and cleaning

For Kiesol: K-surface sprayer
For Sulfatex Grout: Floor brush or Grouting Broom, suitable machine for fine render (Desoi SP.8 / SP 10)

Packaging, application rate, shelf-life

Packaging:
25 kg paper bags

Application rate:
1.6 kg powder Aida
Sulfatex Grout /m² per mm thick layer

Shelf-life:
At least one year stored dry in closed bags

Safety, ecology, disposal

Further information concerning safety during transport, storage and handling as well as for disposal is found in the latest Safety Data Sheet.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

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