Technical Data Sheet
Art. No. 0430

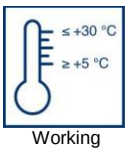
Sulfatex Grout

High quality, waterproofing grout with high resistance to sulphate for waterproofing buildings in the Kiesol System.

Low in chromates according to RL 2003/53/EC


For use indoors and outdoors

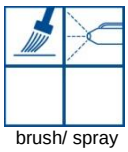
Dry mortar / water



Working temperature

Mixing time

Maturing time


brush/ spray application

Shelf-life


Protect from moisture

Range of use

- For subsequent waterproofing of basements against ground damp, non-standing and standing seepage water, water pressure and water from behind
- Especially for damp areas on plinths and basement walls with large surface moisture penetration.
- For vertical waterproofing in areas where subsequent horizontal barriers are placed.
- For waterproofing new buildings (basements) and building elements against moisture as well as rising damp in the positioning areas of walls with good adhesive shear strength.
- 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 Kiesol and ElastoGrout.

Characteristic data of the product

Water requirements:	20 - 21 %
Working time:	approx. 60 minutes
Compressive strength after 28 days:	approx. 30 N/mm²
Tensile bending strength after 28 days:	approx. 6 N/mm²
Water absorption coefficient w_{24}:	< 0.1 kg/(m² · $h^{0.5}$)
Water vapour diffusion:	μ < 200
Resistance to chemicals (DIN 4030-1):	XA2

- In a system for substrates with salt loads
- Mineral waterproofing in drinking water areas.
- Water and frost resistant
- Highly sulphate resistant
- Promotes drying since vapour permeable

Property profile

Remmers Sulfatex Grout is a high quality, cement bound building waterproofing material with outstanding product properties.

- Waterproofing in just one day
- Easily and quickly applied on sand-lime brick, brick and concrete substrates
- Highly water impermeable under water pressure (also water pressing from behind!)
- Adheres extremely well to the substrate, forming a bond
- Particularly resistant to mechanical and chemical action

Tests reports and certificates in accordance with:

- Waterproofing against pressure water from behind
- National Test Certificate
- Test Certificates according to DVGW Code W 347 and W 270 [German Technical and Scientific Ass. for Gas and Water] for drinking water areas

Substrate

The substrate (concrete, masonry or render in CS III and CS IV categories) must be load-bearing and

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free of substances that could interfere with adhesion.

When subsequently waterproofing in indoor areas, remove old render or coatings at least 80 cm above the visible damp zone. Internal 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 Kiesol and Remmers Rapid Hardener (Art. No. 1010). Cracks in concrete and, if applicable, floor connections with running water should be injected with Remmers Injection Resin PUR (Art. No. 0946) or with Remmers Injection Resin 2K PUR (Art. No. 0939).
Whether the substrate must be pre-wet before the application of grout depends on moisture content and absorption capacity. Highly absorbent masonry work (e.g. dry sand-lime brick) should be pre-wet in advance several times.
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. Excess material should not run down the substrate. After a short waiting time 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 and Remmers Waterproofing Filler (Art. No. 0426) 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. If the whole surface needs to be worked over, use Remmers Undercoat Render (Art. No. 0401).
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 litres of water** into a clean container (mortar tub). 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 a moment until the proper consistence for working has been achieved. Add only the quantity of water specified! Immediately after mixing, apply Sulfatex Grout to the entire surface using a soft brush in a grouting procedure. After approx. 20 minutes (depending on the substrate), apply a second layer of grout as before. In case of standing seepage water or water pressure loads, apply three layers of Sulfatex Grout.
The minimum application rate for the grout is 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/m²	
		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 water loads may change in the future, we recommend a 3 mm thick layer.
Horizontal waterproofing in wall positioning areas:
1 silicification treatment*
+ 1 layer of grout

Protection against moisture from behind:
In sealing cove areas:
1 silicification treatment*

In plinth areas:
1 silicification treatment*
+ 1 layer of grout

Basic mineral waterproofing in floor areas:

1 silicification treatment*

* A **silicification treatment** consists of spraying on Kiesol diluted 1:1 with water, a short waiting time and then application of one of the Remmers waterproofing grouts.

■ **For expansion-capable, vertical external waterproofing**
For 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 drinking water areas**
Because of the positive pressure water load, execute with three layers of Sulfatex Grout, wet-on-wet. Do not apply a silicification treatment.

■ **Application of render**
If render is to be subsequently applied, throw Remmers Preparatory Mortar onto the last, still fresh layer of grout and allow to set for 24-48 hours. The apply one of the Remmers restoration renders.

Notes

Do not use if the temperature of the air, substrate and building material is below +5 °C or above 30 °C. The values given were determined under laboratory conditions at 20 °C and 65 % relative humidity. After waterproofing work has been concluded, check for missing areas. Protect from weather (sun, wind, rain, frost) for at least 24 hours and keep damp.

When refurbishing 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 one of the Remmers bitumen thick coatings.
May contain traces of pyrite or iron sulphide.

Tools and cleaning

Floor brush or grouting broom, suitable machine for fine render (Desoi SP.8 / SP 10)
For Kiesol: K-surface sprayer
Clean tools with water before the mortar sets.

Packaging, application rate, shelf-life

Packaging:
25 kg paper bags, 5 kg plastic containers

Application rate - dry mortar:
1.6 kg/m²/mm thick layer

Shelf-life:
At least 12 months stored dry in closed bags

Safety, ecology, disposal

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

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