

Technical Information Sheet  
Article No. 0425

# Sulfatex Grout Rapid

High quality waterproofing grout for fast and reliable restoration of buildings

**Fast setting system product used with Remmers Waterproofing Filler**

Complies with the "Guidelines for Planning/Execution of Waterproofing on Building Elements Using Mineral Waterproofing Grouts"

## 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, in damp areas on plinths and cellar walls, for moisture penetration in surfaces. Also for vertical waterproofing in areas where subsequent horizontal barriers are placed.
- As protection from moisture from behind when new buildings are waterproofed with crack-bridging bitumen thick coatings.

## Property profile

Remmers Sulfatex Grout Rapid is a high quality, mineral building waterproofing that is state-of-the-art technology. Waterproofing the building and repairing the substrate can be executed wet-on-wet in a single working operation, allowing faster work and cost savings.

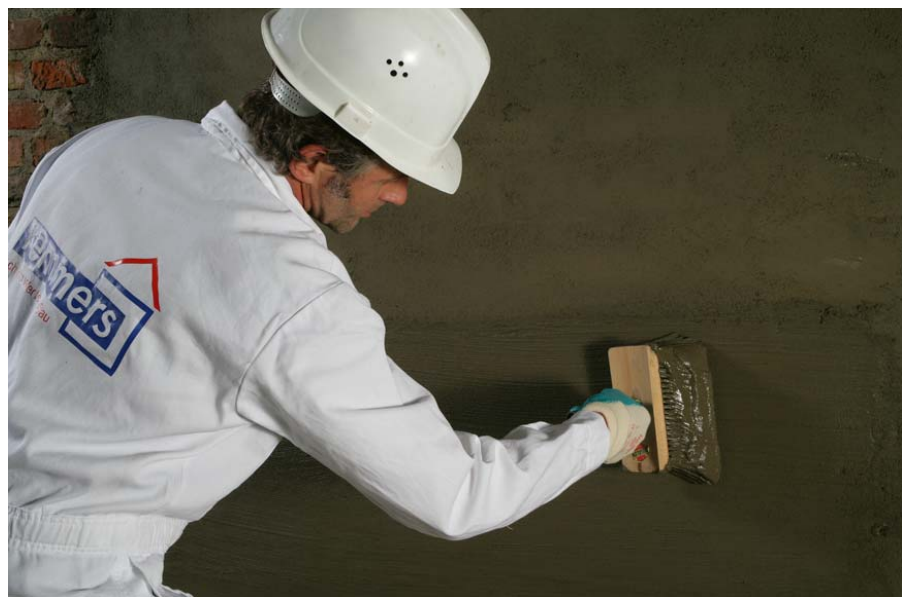
- Fast restoration in just one day!
- Easy and fast to work on sand-lime brick, brick and concrete substrates
- Waterproofing and repairing (e.g. joints, holes, broken out

areas) are executed in just a single working operation!

- Wet-on-wet technique – no waiting time!
- Reliable, crack-free setting
- Adheres extremely well to the substrate, forming a bond
- Water impermeable even with water pressure load
- Resistant to water, frost and sulphates
- Promotes drying since the grout is vapour permeable
- National Test Certificate for building waterproofing
- Proved in a test against pressure water from behind and salt resistance

## Substrate preparation

All **wall and floor substrates** must be sound, load-bearing, free of substances with a separating effect and loose soft material. **Old render** should be removed at least 80 cm above the visible damp zone. The substrate should be cleaned and **old coatings** removed from the entire surface, e.g. by mist blasting (Rotec), also mechanically in small areas. Interior waterproofing must be continuous and therefore **interior dividing walls** must be separated from exterior walls the width of a



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## Characteristic data of the product

Mixing ratio:	5.0 litre water to 25 kg powder
Quantity of water added:	20 % by weight
Working time:	30-45 minutes
Working temperature:	+3 °C to +25 °C
Consistence:	brushing, grouting consistence
Density of fresh mortar:	≈ 1.9 kg/l
Tensile bending strength:	28 days approx. 5 N/mm <sup>2</sup>
Compressive strength:	28 days approx. 25 N/mm <sup>2</sup>
Water absorption coefficient:	w-24 < 0.1 kg/m <sup>2</sup> x h <sup>0.5</sup>
Water vapour diffusion:	μ value < 200
Chemical resistance according to DIN 4030:	up to very strong

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.

**Cracks in concrete** and, if necessary, the floor connection should be injected with Injection Resin PUR or elastically with Injection Resin 2K PUR. 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 restoration

**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, Remmers Sulfatex Grout Rapid is brushed on

as a bonding layer (for mixing, see "Waterproofing" below).

Remmers 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, plasterer's float or jointing iron to achieve a closed surface. Place a sealing cove on the wall-floor connection over the fresh layer of adhesive grout using Waterproofing Filler. Work can be continued after just 60 minutes.

**Waterproofing:** Depending on the desired consistence, pour 4.8 to 5.0 litres of water into a clean container. Add 25 kg Sulfatex Grout Rapid and mix thoroughly 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, Sulfatex Grout Rapid 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 Sulfatex Grout Rapid.

**The grout should be applied with a minimum application rate of 2.0 kg/m<sup>2</sup> (> 1 mm thick layer) per layer.**

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

Type of water load	Minimum layer thickness in mm	App. rate in kg/m <sup>2</sup>	
		fresh mortar	powder
Ground damp, non-standing seepage water 2 coats:	2	4	3,2
Standing seepage water + water pressure 3 coats:	3	6	5

**Since water loads may change, we recommend a 3 mm thick layer.**

Sulfatex Grout Rapid and Waterproofing Filler are fast restoration products and the individual working sequences must be therefore coordinated with the working time (30-45 minutes, depending on temperature). If the ambient, material or object temperature is above 25 °C, use the slow setting system, Remmers Waterproofing Grout / Repellent Mortar.

### Finishing the wall with light-weight render:

After the last layer of grout has been applied, the wall surface must be coated within 30 minutes with a breathing active render that promotes drying. Apply a full surface rough cast first made of Remmers Universal Render antique white or Remmers Restoration Render (antique white or special) and then apply a single layer of the render (at least 10 mm, max. 30 mm). The wall render should be separated from the floor by a joint at least 1 cm wide.

Do not apply gypsum or lime render!

If render is to be applied at a later time, throw Remmers Preparatory Mortar onto the last layer of grout instead.

### Cellar floor surfaces:

After the screed has been removed and the substrate cleaned, any cracks should be injected. Spray Kiesol diluted 1:1 with water over the entire surface of the matt damp, clean substrate, avoiding excessive amounts. After a waiting time of at least 15

minutes, waterproof wet-on-wet with two or three layers of grout, according to load, using Sulfatex Grout Rapid as described above. Then place a bonded screed. If the screed cannot be placed the same day (e.g. full surface floor waterproofing), apply a bonding layer of Sulfatex Grout Rapid the next day and then place the screed over the fresh bonding layer. Screed placed over waterproofing should be reinforced. The use of a fast screed (that dries in 1 day!) is also possible with Remmers Fast Screed Cement.

#### **Plinth waterproofing with injection against rising damp:**

Execute surface waterproofing at least 30 cm above the horizontal barrier. For this, spray Kiesol diluted 1:1 with water over the entire surface of the matt damp substrate, avoiding excess material. After a waiting time of at least 15 minutes, waterproof with two layers of grout, wet-on-wet, using Sulfatex Grout Rapid and then apply Remmers Universal Render as described above.

#### **Notes**

Do not use at temperatures below +3 °C or on frozen substrates. Lower temperatures increase, higher temperatures reduce working and setting time. After the waterproofing has been concluded, check for missing areas. Protect from weather (sun, wind, rain, frost) and keep damp for 24 hours (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 Thick Coatings.

#### **Tools, cleaning**

Kiesol: K-surface sprayer  
Sulfatex Grout Rapid: soft brush  
Remmers Waterproofing Filler: float, trowel, plasterer's float, jointing iron

#### **Packaging, application rate, shelf-life**

##### **Application rate:**

1.6 kg powder Sulfatex Grout Rapid/m<sup>2</sup> per mm thick layer

##### **Packaging:**

25 kg paper bags

##### **Shelf-life:**

At least one year stored dry in closed bags

#### **Safety, ecology, disposal**

Further information on safety when transporting, storing and handling as well as disposal and ecology 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.

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