



Technical Data Sheet Art. No. 0428

Repellent Render

Fibre reinforced, water impermeable render for reliably waterproofing buildings

Single component, polymer modified, dry mortar with hydraulic binders, mineral aggregates and special additives

Low in chromate in accordance with RL 2003/53/EC



For use indoors and outdoors



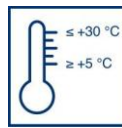
Dry mortar / water



Mixing time



Maturing time



Working temperature



Mortar cover / filling knife / trowel / spray application



Total application rate per mm thick layer



Shelf-life



Protect from moisture!

Range of use

In outdoor areas

- Substrate for waterproofing with polymer modified, bitumen thick coatings as well as flexible and rigid waterproofing grouts
- Levelling render also suitable for repairing broken out areas and filling indentations, holes and pipes on mineral substrates
- Plinth render
- Water impermeable joint and masonry mortar

In indoor areas

- Waterproofing system for utility rooms with normal moisture loads
- Water impermeable render base beneath restoration renders
- Waterproofing base for internal waterproofing systems

Property profile

Remmers Repellent Render is a factory mixed, mineral, dry mortar that is ready to use after mixing with water.

Characteristic data of the product

Colour:	grey
Grain:	0 - 2 mm
Bulk density:	~ 1.5 kg/dm ³
Water requirements:	approx. 18 %
Working time:	approx. 90 min.
Layer thickness:	10 to 30 mm
Compressive strength (EN 998-1):	≥ 10 N/mm ² corresponding to CS IV
Apparent density of fresh mortar:	~ 1.9 kg/l
Dynamic E-modulus:	≥ 10000 N/mm ²
Capillary water absorption:	≤ 0.1 kg / (m ² · min ^{0.5})
Water pressure tight: (Worked in 2 layers at least 20 mm thick according to WTA)	≤ 1.0 bar without a bonding layer ≤ 1.5 bar with a bonding layer
Reaction to fire (EN 998-1):	Euro Class A1

Special properties:

- Very smooth
- Excellent stability
- Fibre reinforced
- Good adhesion and bond to the substrate
- Highly sulphate resistant with a low active alkali content
- Can be worked by hand or machine
- Water, weather and frost resistant
- Water impermeable
- Promotes drying since it is vapour permeable

Substrate

At the time of application the substrate must be matt damp, rough, sound and load-bearing. Remove loose material that could interfere with adhesion and cement grout by sandblasting, bush hammering, or similar treatment. Pre-wet highly absorbent masonry work (e.g. dry sand-lime brick) several times in advance.

Directions

Pour approx. **4.5 l** of water into a clean container (mortar tub), then add **25 kg Remmers Repellent Render**.

(To reduce dust, place the open bag in the water for mixing and allow the material to slowly enter the mixing water.)

Mix thoroughly with a mixer/ positive mixer for **approx. 2 minutes until homogeneous, allow to mature for 1 minute, then mix again for 1 minute** until a plastic consistence without lumps has been achieved. If necessary, a little more water may be added. Throw the render onto the substrate, work over with a grated scraper and, if applicable, comb according to the state of the art rules for applying render.

In areas where the render base is very uneven or broken out, work should be carried out in two layers to avoid large differences in the thickness of the render and resulting risk of crack formation or hollow layers. The first layer should be roughened, e.g. with a comb, to provide anchorage for the second layer. The second layer is applied at the earliest the following day. One layer applications can be 10-20 mm thick; when worked in two layers 20-30 mm thick. In broken out areas, the material can be applied in a layer up to 80 mm thick. This product can be mixed with all conventional positive mixers.

■ Worked as a slurry

Spray Kiesol diluted 1:1 with water over the matt damp, cleaned substrate. After a brief waiting time (approx. 15 min.), Remmers Sulfatex Grout or Waterproofing Grout is applied as a bonding layer in a grouting procedure. Repellent Render is then thrown onto the still fresh layer of slurry or applied with a float.

■ Worked as a spritz

Throw on Preparatory Mortar net-like as a bonding layer. Apply Preparatory Mortar full surface on highly absorbent substrates and mixed masonry work. Wait 24-48 hours before applying Repellent Render.

■ Application with a filling knife

To improve anchorage, roughen the initially set render surface with, e.g. a grated scraper. After 2 - 7 days, apply the moisture regulating filler, Remmers iQ-Top SLS (Art. No. 0230) in a layer 5 mm thick.

Curing:

Protect the render surfaces from drying out too quickly and the influence of weather such as wind, sunlight, driving rain, drafts and frost by covering with plastic sheets. Curing time is at least 2 days. Uneven setting and drying can lead to cracks and unevenness and hollow areas.

Notes

Initially set mortar cannot be made workable again by adding water or fresh mortar. Do not use if the temperature of the air, substrate and building material is below +5 °C or above +30 °C. The characteristic data given for this product were determined under laboratory conditions at 20 °C and 65 % relative humidity. Low temperatures lengthen, high temperatures reduce working and setting time.

May contain traces of pyrite or iron sulphide.

The surface should be free of cracks; hair/shrinkage cracks are of no concern since they do not impair serviceability.

Tools, cleaning

Positive mixer, double shaft mixer, continuous mixer, mixing pump

e.g. PFT G4, trowel, float, smoothing float, wood float, plastic float. Clean tools with water before the mortar sets.

Packaging, application rate, shelf-life

Packaging:

25 kg paper bags

Application rate - dry mortar:

Approx. 1.6 kg/m²/mm thick layer or approx. 1.6 kg/dm³

Shelf-life:

At least 12 months stored dry in closed containers

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.



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Sperrputz

Designed rendering/plastering
Mortar without special characteristics

Reaction to fire:	class A1
Adhesion:	≥ 0.4 N/mm ² (fracture pattern B)
Water absorption:	W2
Water vapour permeability:	μ ≤ 25
Thermal conductivity λ _{10 dry} (tab. value EN 1745)	≤ 0.83 W / (m · K) for P=50% ≤ 0.93 W / (m · K) for P =90%
Durability (against freeze-thaw)	Resistant, by use acc. TDS

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