

Technical Information Sheet Article No. 0404

Restoration Render Rapid

Fibre based, single layer, fast setting restoration render

In compliance with WTA Code of Practice 2-9-04/D and DIN EN 998-1 for internal and external use, also in one layer as an undercoat or finishing render. Test certificate and external supervision by the Quality Association for Natural Stone, Lime and Mortar e.V. Cologne

Range of use

Remmers Restoration Render Rapid can be used for fast repair, renovation and restoration of damp wall surfaces, even with salt loads such as:

- Internal wall surfaces in cellars and old buildings
- For facades, historical buildings and monuments
- Also for high salt loads when used in combination with Remmers Undercoat Render
- It can be used on all mineral wall building materials suitable for the application of render such as masonry brick, also with pores, sand-lime brick, concrete according to DIN 1045, aerated concrete, masonry work with natural building materials suitable for render, building materials with carbonate and hydraulic setting binders according to DIN 1164 and DIN 1060.

Property profile

Remmers Restoration Render Rapid is a factory-mixed, mineral, light-weight mortar for repairing buildings with excellent product properties.

- Binds water fast and can be worked over quickly
- Coatings or finishing render can be applied after just 24 hours
- The render sets and develops its hydrophobic properties even in > 60% humidity
- Easy to apply and work the surface in one layer up to 30 mm!
- Can be worked by machine
- High stability
- Fibre and texture reinforced; sets and dries crack-free
- Promotes drying, resistant to salt and sulphates with large active pore space volume (> 50%)
- Prevents the loss of heat through the penetration of moisture
- Condensation does not form on the surface
- Water, weather and frost resistant
- Component in a fast, internal waterproofing system



0404-TI-03.07

Characteristic data of the product

Bulk density:	approx. 0.9 kg/dm ³
Colour:	antique white
Water requirements:	approx. 6.2-6.4 l/20 kg bag
Pot-life:	approx. 30 minutes at 20 °C
Working temperature:	at least +5 °C
Requirement profile:	according to WTA Code of Practice
Compressive strength:	corresponds to CS II
Capillary water absorption:	> 0.3 kg/m ²
Water penetration depth:	< 5 mm
Water vapour diffusion resistance coefficient μ :	approx. 0.25 W/ (m*k)
DIN 4102 "Behaviour under fire":	non-combustible building material: Building Material Class A1

Substrate

Preliminary work: The substrate must be load-bearing and free of substances that could interfere with adhesion (e.g. release agents, loose material, dust, sanding, efflorescence, soiling). Remove old and damaged render at least 80 cm above the damaged zone. Chase out friable joints at least 2 cm deep and thoroughly remove coats of paint and other coatings.

The substrate may be dry or matt damp (max. 6% by weight) but should not show any pressing moisture. Rising damp or moisture that penetrates from the outside on external cellar walls must be waterproofed first in the Remmers Kiesol System. If there are heavier salt loads, apply Remmers Undercoat Render first.

Pre-wetting and spritz:

Pre-wet absorbent render bases until the surface is matt damp (but not wet). On masonry work with normal absorption behaviour, Restoration Render Rapid can be applied as a contact render over the entire surface and then, wet-on-wet, a subsequent coat of the restoration render is applied. If mineral grout waterproofing using Remmers Sulfatex Grout Rapid has been applied, the restoration render can be applied the same day in the same manner. On highly absorbent substrates and mixed masonry work, apply a full

cover spritz; on smooth and dense surface, apply a nodular spritz. A spritz using Remmers Preparatory Mortar is applied full cover on the last still fresh layer of mineral waterproofing grouts. The adhesion of the Preparatory Mortar can be improved on smooth and dense surfaces by adding Remmers Haftfest. After the Preparatory Mortar has set (24-48 hours), render can be applied.

Directions

Pour **approx. 6.2-6.4 l of water** into a clean container and add **20 kg of Restoration Render Rapid**. Mix with suitable mixing equipment (e.g. BEBA double shaft positive mixer) for approx. 3 minutes until homogenous and the proper consistency for working has been achieved. When using a machine, the corresponding water adjustment setting depends on the screw conveyor used. Working time depends on the water setting and conveying pressure. **Standing times should not exceed 15 minutes.** After the render base has been pre-treated, the mixed mortar is applied by hand or with a machine. **Remmers Restoration Render Rapid is applied in one layer from 2 to 3 cm thick.**

A contact layer of render is applied first which is allowed to set for a moment and is then filled to the desired thickness. When there are high salt loads,

Remmers Restoration Render Rapid is used in combination with **Remmers Undercoat Render** and applied at least 15 mm thick. In areas where the render base is highly uneven or cleft, the render should be worked in two layers to avoid large differences in the thickness of the layers which could cause cracks or hollow layers to form. The first layer should be roughened, e.g. with a comb, to ensure good anchorage of the second layer. The second layer is applied when the first layer has sufficiently dried.

The fresh layer of Remmers Restoration Render Rapid is immediately closed with a long toothed float and levelled with the smooth side. After the surface has become matt, the surface is carefully worked with a soft sponge float and after further setting finished with the same float.

A coat of e.g. Remmers Restoration Render Paint can be applied after approx. 24 hours. If a finishing or decorative render is desired, it can also be applied after approx. 24 hours. Apply Remmers Fine Render for very smooth surfaces or Remmers Decorative Render for textured surfaces.

See the Technical Information Sheets for the individual products.

Notes

Initially set mortar cannot be made workable again by adding water or fresh mortar. Do not use at temperatures below +5 °C. Lower temperatures lengthen, higher temperatures shorten working and setting time. Do not use Remmers Restoration Render Rapid on gypsum substrates. Protect Remmers Restoration Render Rapid from drying out too quickly, especially in sunshine and wind, indoors in drafts or thermal loads. Wet or spray with water subsequently if necessary. The render surface should be free of directly visible cracks; fine hair cracks, however, are no cause for

objection since they do not impair the technical values of the render.

Tools, cleaning

Render machine with an after-mixer, e.g. PFT G 4 or G 5 with Rotoquirl, Putzknecht S 48.3 or S 58, positive mixer, double shaft mixer, trowel, float, smoothing float, wood float, plastic float. Clean tools and equipment while the render is still fresh with water.

Packaging, application rate, shelf-life

Packaging:

20 kg paper bags

Application rate:


Approx. 8.0 kg/m² per cm thick layer, for a 20 mm thick layer of render approx. 16 kg dry mortar/m²

Shelf-life:

At least 12 months stored dry and protected from moisture in original bags on wooden grids.

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as on disposal and ecology is found in the latest Safety Data Sheet.

	
Remmers Baustofftechnik GmbH Bernhard-Remmers-Straße D-49624 Lönningen 07	
EN 998-1 Restoration Render Rapid WTA Restoration Render Mortar CS II for internal and external use	
Behaviour under fire:	A 1
Water absorption:	W 0
Water vapour permeability μ:	≤ 15
Adhesive pull strength:	≥ 0.08 N/mm² (at rupture B)
Compressive strength after 28 days	CS II
Thermal conductivity $\lambda_{10 \text{ dry}}$	≤ 0.27 W (m · K) P= 50%
Durability:	Based on experience it is suitable for load group III corresponding to DIN 4108

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.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

0404-TI-03.07



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