

Technical Information Sheet Article No. 0401

Undercoat Render

Levelling and salt storing render, low alkali.

Undercoat render according to WTA Code of Practice for use indoors or outdoors in a single layer up to 40 mm thick.

Test certificate and external supervision by the German Quality Association for Limestone, Lime and Mortar

Range of use

- Undercoat and salt storing render for restoring old buildings and masonry work, particularly on render bases with salt loads
- Especially for subsequent coating with one of Remmers Restoration Renders
- For preparing the substrate and for levelling the entire surface of highly uneven render bases
- As a filling and levelling mortar on rubble stone masonry work
- For all mineral wall building materials suitable for the application of render such as masonry brick – even porous, sand-lime brick, concrete according to DIN 1045, aerated concrete, masonry work made with natural building materials to which render can be applied, building materials with hydraulic setting binders according to DIN 1164, DIN 1060, DIN 4211.

Property profile

Remmers Undercoat Render is a factory-mixed, cementitious, pore undercoat render for restoring buildings. The render has the following outstanding properties:

- Easy to use and texture the surface in a single layer between 10 and 40 mm!

Characteristic data of the product

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| Bulk density: | approx. 1.5 kg/dm ³ |
| Colour: | grey |
| Working time: | > 1 hour |
| Working temperature: | at least + 5 °C |
| Requirement profile: | according to WTA Code of Practice conforms to CS III |
| Compressive strength: | > 1.0 kg/m ² |
| Capillary water absorption: | > 5 mm |
| Water penetration depth: | < 18 |
| Water vapour diffusion coefficient μ : | > 50 % by volume |
| Porosity: | |
| DIN 4102 "Behaviour under fire: | Building material class A 1 |

- Can be worked by machine, very stable
- Fibre and texture reinforced, sets and dries crack-free
- Promotes drying, resistant to salts and sulphates, large active pore space (> 50 %)
- Highly water vapour permeable
- Resistant to water, weather and frost

deep. Thoroughly remove coats of paint and coatings. The substrate may be dry or matt damp (max. 6% by mass) but should not show any pressing moisture. Rising damp or moisture penetrating from the exterior on exterior cellar walls should be waterproofed beforehand in the Remmers Kiesol System.

Substrate

Pre-treatment: The substrate must be load bearing and free of material that could interfere with the adhesion of the render (e.g. release agents, loose material, dust, sanding, efflorescence, dirt). Remove damaged old render at least 80 cm above the damaged zone and chase out joints 2 cm

Pre-wetting and rough cast: Pre-wet absorbent render bases until they have become matt damp (not wet). On poorly absorbent, smooth render bases (e.g. dense brick, concrete), apply Remmers Preparatory Mortar net-like/nodular. On highly absorbent substrates and on hardened cement bound waterproofing, apply a full cover rough cast made of Remmers Preparatory Mortar

modified with Remmers Hafffest (1 part by volume Hafffest to 5 parts by volume water). The render can be applied after the Preparatory Mortar has hardened (24-48 h).

Working

Pour approx. 7.0 l of water into a clean container or mortar tub and add 20 kg of Undercoat Render. Mix with a mixer/mixing tool for approx. 3 minutes until homogeneous and the proper working consistency has been achieved. When using a machine, the corresponding water setting depends on water pressure and the conveyor used.

Working time: approx. 1 hour
After the render base has been prepared, apply the mixed mortar by hand or machine.

Remmers Undercoat Render is applied in a range of **1 to 4 cm**. A 1 cm layer of render is applied first as a contact layer and after this layer has initially set, further render is applied up to the intended thickness.

When carrying out restoration work combined with Remmers Restoration Render and for levelling layers, an at least 10 mm thick layer is required. Layers thicker than 40 mm should be executed in two layers. On uneven render bases, work should be carried out in two layers to avoid fluctuation in the thickness of the render which could lead to cracks and hollow areas.

When worked in multiple layers, the first layer is roughened with e.g. a comb to provide anchorage for the following layer. The second

layer of Undercoat Render is applied with the surface of the first layer has sufficiently dried, at the earliest the following day.

If only a short waiting/standing time is available, work can be carried out in one working operation, applying 2 layers wet-on-wet (wet-on-damp). In this case, Remmers Render Reinforcement Fabric TG 14/1 is placed between the layers. If further work is carried out using Remmers Restoration Render or other render coatings, the waiting time is at least 7 days / 3 days with a layer of reinforcement. The surface should be roughened.

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 accelerate; higher temperatures reduce working and setting time. When applied by machine, see the information in Remmers' pamphlet "Working Remmers Factory-Mixed, Dry Mortars by Machine". Protect Remmers Undercoat Render from drying out too quickly, especially outdoors in sunlight and wind and indoors through drafts or thermal loads. If necessary, net/spray with water subsequently. Do not use on gypsum substrates. Remmers Undercoat Render cannot dry in high humidity, e.g. in poorly ventilated areas.

To ensure that restoration measures are successful, proper drying conditions must be created, e.g. by setting up space heaters,

after sufficient hardening of the render (at the earliest after 7 days). The render surface should be free of directly visible cracks. Fine hair cracks are not serious and no reason for objections since they do not impair the technical values of the render. When applying render, always observe DIN 18550.

Tools and cleaning

Render machines with an agitator, e.g. P.F.T. G4 with Rotoquirl, Putzknecht S 48 classic or S 58, both with an agitator, positive mixer, double shaft mixer, continuous mixer with a long mixing tube, smoothing float, levelling rule (aluminium), render comb, broom, trowel.

Clean tools and equipment with water while the render is fresh.

Packaging, application rate, shelf-life

Packaging:
20 kg paper bags

Application rate:
Approx. 9.5 kg dry mortar per m² for a 10 mm thick layer of render

Shelf-life:
At least 6 months in closed, original bags, stored dry and protected from moisture on wooden grids.

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.

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