



Technical Information Sheet Article No. 1077

Compress Render

Salt storing/sacrificial render for storing salt

Factory-mixed, dry mortar made with a highly sulphate resistant, mineral binder and natural, mineral aggregates
Low in chromates in accordance with RL 2003/53/EC

Range of use

Remmers Compress Render is used to desalinate and remove moisture from natural stone, brick, render and other mineral substrates. It is also used as a sacrificial render on old buildings, historical buildings and monuments, indoors and outdoors.

Property profile

Remmers Compress Render is smooth, easy to work, stable and high yielding. When worked properly it can be applied in layers from 10 to 30 mm thick. Hardened Compress Render forms a porous sacrificial layer with a high percentage of capillary active pores and an additional number of air pores that take up damaging salts. The render is resistant to water, weather and frost. Because of its low weight per unit surface area and favourable deformation behaviour, the material can also be used on substrates with less strength and with little load-bearing capacity (preliminary testing and a trial surface are necessary).

Substrate

The substrate must be load-bearing and free of substances that could interfere with adhesion. Remove old and damaged ren-

Characteristic data of the product

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|------------------------------------|--------------------------------|
| Bulk density: | approx. 0.7 kg/dm ³ |
| Dry density: | approx. 0.8 kg/dm ³ |
| Colour: | grey |
| Working time: | approx. 1 hours |
| Compressive strength: | CS II |
| Water penetration depth: | > 10 mm after 24 h |
| Total porosity: | ≅ 60 % by volume |
| Dynamic E-modulus: | approx. 2000 N/mm ² |
| Behaviour under fire (DIN EN 998): | Euroclass A1 |

ders, coatings and paint thoroughly at least 80 cm above the damaged zone. Chase out friable joints 2 cm deep. The substrate must be dry to matt damp (max. 6 % by mass) and there should be no pressing moisture. Treat rising damp first in the Remmers Kiesol System. Apply Remmers Preparatory Mortar in nodules (net-like) to poorly absorbent render bases. In the case of highly absorbent render bases, pre-wet thoroughly first.

Directions

Pour **approx. 8.5 l of water** in a clean container (mortar tub), add **16 kg of Compress Render** and mix thoroughly with a mixer/mixing paddle for approx. 2-4 minutes until the material is homogenous and the proper consistence for working has been achieved.

For machine application, the water setting depends on the screw conveyor used. Apply the render by machine in a single layer at least 10 mm and max. 30 mm thick. A minimum thickness of 20 mm is required for substrates with heavy salt loads. Layers thicker than 30 mm should be applied in two working operations. The first layer is coarsely levelled/smoothed and then roughened, e.g. with a render comb, to provide good anchorage for the second layer. The second layer is applied after the uniformly applied first has sufficiently set; at the earliest the next day. There will be great deviations in the thickness of the render on uneven, cleft render bases. The resulting different speeds of setting and drying cause stress that may lead to cracks and hollow voids. For this reason, the second layer of render can only be applied in a uniformly

thick layer after at least 1 day of waiting time per mm thick layer. Immediately after Compress Render has been applied, it is closed with a moistened, toothed float and levelled with an aluminium rule. When the surface has become matt it is carefully worked over with a soft sponged float. After further setting the surface can be finished with the same float. Very smooth, fine surfaces can be achieved by working the surface over with a grated scraper after sufficient setting. After a waiting time of at least 3 days, Remmers Fine Render can be applied.

Notes

Initially set render cannot be made workable again by adding water or fresh mortar. Do not use if the temperature of the air, substrate and building materials are below +5 °C or above +30 °C. The characteristic data given for the product were determined under laboratory conditions at 20 °C and 65 % relative humidity. Lower temperatures increase, higher temperatures reduce working and setting time. **Do not apply to gypsum substrates.** Protect Compress Render from drying out too fast, especially outdoors in sunlight and wind, indoors in drafts and thermal loads. If necessary, moisten/spray with water subsequently.

The surface of the render should be free of visible cracks; fine hair cracks are of no concern and no reason for complaint since they do not impair the properties of the render.

Setting up a trial surface on monuments and historical buildings is recommended.

Tools, cleaning

Render application machine with an after-mixer, e.g. P.F.T. G 4 with rotoquirl 1, Putzknecht S 48 classic or S 58, mixer, mixing paddle, positive mixer, float, levelling rule (aluminium), render comb, broom, grated scraper, float with sponge, trowel. Clean tools and equipment with water while the render is still fresh.

Packaging, application and storage


Packaging:
16 kg paper bag

Application rate - dry mortar:
Approx. 6.0 kg/m² per cm thick layer

Shelf-life:
Approx. 6 months stored dry in closed bags

Safety, ecology, disposal

Further information on safety for transporting, storage and handling as well as disposal and ecology are found in the latest Technical Data Sheet.

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| Remmers GmbH Bernhard-Remmers-Straße 13 D-49624 Lönigen | |
| Year: See batch date | |
| EN 998-1 Light-weight plaster LW (C S II) for use indoors and outdoors | |
| Behaviour under fire: | Class A1 |
| Adhesive pull strength | ≥ 0.08 N/mm ² (Failure pattern B) |
| Water absorption: | W0 |
| Water vapour permeability μ: | < 15 |
| Thermal conductivity: | 0.21 W/(m*K) |
| λ _{10 dry} : (table value EN 1745) | P = 50% |
| Durability: (Frost resistance) | Suitable for load group III according to DIN 4108 based on values gained in experience |
| Hazardous substances: | See Safety Data Sheet |

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.

1077 Compress Render_11.16



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