

TECHNICAL DATA SHEET

KEMASAN 535 M

Cement free mineral render with natural hydraulic lime as binding agent



PRODUCT DESCRIPTION

Cement-free mineral render with natural hydraulic lime as binding agent. Specially developed for the use both in historical buildings as well as in modern objects with regard to a healthy living environment.

Field of use

Natural hydraulic lime (NHL 3.5 according to EN 459-1), hydrated lime, lime sand, minimal additives of cellulose for easier application. Free of Portland cement, organic binding agents and hydrophobic additives.

For machine plastering of absorbent mineral substrates, such as solid brick, stone walls, cement stone, concrete, sand-lime brick, hollow tiles and highly porous masonry. Can also be used in first layer as pre-treatment.

Product properties

- Highly diffusive
- Low-stress
- Mineral plaster for inside and out
- Can be applied by machine with excellent climate-regulating properties.

PRODUCT DATA

Basic information

Appearance	Grey - brown powder
Packing	25 kg bag
Storage and expiration date	Can be stored dry in foil on pallets for 6 months

Technical data

Maximum particle size:	2 mm	
Dry bulk density:	approx. 1500 kg/m ³	
Water requirement:	approx. 6.5 liters/ bag	
Material consumption:	approx. 14 kg/m ² /cm	
Yield:	approx. 1.8 m ² /cm/bag	
Compressive strength (28d):	approx. 2.0 N/mm ²	
Flexural strength (28d):	approx. 1.0 N/mm ²	
Compressive strength (180d):	approx. 3.0 N/mm ²	
Flexural strength (180d)	approx. 1.8 N/mm ²	EN 1015-11
Minimum plaster thickness:	10 mm	
Classification	GP/CSI/W0	EN 998-1
Fire behavior	A1	EN 13501-1
E-module:	< 1500 N/mm ²	

INSTRUCTIONS FOR USE

Base

Basic testing of the plaster has to take place in accordance with the guidelines of ÖNORM B 3346. The substrate must be dry, clean, frost-free, dustless, not water-resistant, free of efflorescence, able to bear weight, and free of loose parts.

Base preparation

After the substrate testing and poss. required preparation work (closing grooves and joints with suitable material), it is recommended before starting plastering work to insert rust-free wire filament angles in all edges and corners in external areas and plaster corner strips in the interior area (never use products containing gypsum for this!) For uneven or slightly absorbent substrates, the whole surface is to be pre-treated with KEMASAN 530 V. Standing time: at least 3 days. KEMASAN 535 M can be processed with all common plastering machines. If necessary, pre-wet then spray in wavy lines with the plastering machine to required thickness (min. 10 mm, max. 25 mm per application), evenly trowel with H – plasterer's float and cut or smooth after corresponding stiffening (depending on the absorbent content of the substrate). If multiple thicknesses are required, for example, due to unevenness in the substrate, it is to be noted that when applying the first plaster layer (max. 25 mm), the surface is to be roughened horizontally with the plaster rake. Standing time between the plaster layers: min. 12 hours. Standing time before the final coating: approx. 4 weeks or min. 10 days per cm of plaster thickness.

Mix ratio

approx. 6,5 l water/ 25 kg bag

Mix time

3 - 5 minutes

Mix tool

KEMASAN 535 M can be processed with all common plastering machines

In areas to be tiled, use the depth gauge bead as a removal aid and do not rub the surface of the plaster (see ÖNORM B 2207). KEMASAN 535 M is not suitable for laying large area wall panels, but only for small area panel laying in moderately moisture-exposed zones (e.g., bathrooms and domestic kitchens) and after a sufficient standing time of at least 8 weeks. On smooth concrete surfaces, pre-treatment with KEMACRYL, diluted with water in ratio 1:1 is recommended. In transitional areas of different wall materials or small areas of built-in insulating boards, a preceding reinforcement layer with, for example, KEMASAN 535 M with a horizontally leveled surface and 20 cm overlapping joints is recommended to reduce the risk of a poss. later crack formation in these areas. The air, material and substrate temperature must be above + 5 °C during the application and the setting process. The plaster must also be protected from direct weather effects (sunlight, rain).

Cleaning of tool

Tools must be cleaned immediately after use with clean water. Hardened material on tools can only be removed mechanically.

LIMITATIONS

Base temperature

+ 5 Degrees up to + 30 Degrees C

Air temperature

+ 5 Degrees up to + 30 Degrees C

Material temperature

+ 5 Degrees up to + 30 Degrees C

Recommendation: Remains of unhardened/unset material had to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

SAFETY DATA

More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.