

TECHNICAL DATA SHEET

KEMASAN 550

Restoration plaster



PRODUCT DESCRIPTION	Lime-cement restoration plaster with high content of special diffusion-open micro-pores.
Field of use	For restoration of plasters damaged by capillary moisture and for protection of new constructions in areas exposed to moisture and salt. Internal and external plaster, cellar plaster, plaster on cellar vaults. For all types of walls (brick, stone, concrete). Due to fine grain sizes (up to 1 mm) it is also suitable for fine repair plaster. Not suitable for restoration of water ingress.
Product properties	<ul style="list-style-type: none"> • Conforms to the requirements for R plasters, in accordance with the standard EN 998-1:2004 • Minimum and one-time layer 2 cm • Mixing time min. 10 minutes • Render and final drying plaster all-in-one • For manual application • For indoor and outdoor use

PRODUCT DATA		
Basic information		
Appearance	Grey powder	
Packing	25 kg in bag (plastificated) / 1200 kg (48 x 25 kg) on pallet	
Storage and expiration date	12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.	

Technical data		
Type of product	Lime-cement mortar	
Bulk density of powder	1,33 kg/l	EN 1015-2:1999/A1:2007
Weight of fresh mortar	1,38 kg/l	EN 1015-2:1999/A1:2007
Grain size	D _{max} : 1 mm	EN 1015-1:1999/A1:2007
Layer thickness	2 cm	
Contents of air pores in fresh mortar	30 vol.%	
Diffusion resistance coefficient for water vapour u	< = 15	EN 1015-19:1999/A1:2004
Sd coefficient at the plaster thickness of 2 cm	< = 0,3 m	
Water-permeability coefficient w	W1	EN 1015-18:2004
pH (at 20°C)	12,45	
Water vapour permeability coefficient (μ)	11,8	EN 1015-19:2001
Value Sd (m)	0,24 (minimum layer thickness d=3 mm)	EN 1015-19:2001
Flexural strength after 28 days	1,0 MPa	EN 1015-11:2001/A1:2007
Compressive strength after 28 days	3,5 MPa	EN 1015-11:2001/A1:2007

INSTRUCTIONS FOR USE

25 kg/m² for a layer thickness of 2 cm

Base Kemasan 550 restoration plaster binds with any carrying surface (concrete, brick, stone or concrete brick walls etc.).

Base preparation The old plaster, coatings and other layers must be completely removed. The plaster from joints that is usually full of salts must be scratched out 1 cm deep. Plaster residue are to be removed with a wire brush until clean. The dust particles are removed by blowing.
 Waste plaster must be removed from the object in order to prevent water soluble salts to leak back into the wall by capillary forces.
 The surface has to be moistened as Kemasan 550 does not bind to dry surface.

Mix ratio approx. 13 l per 3 bags (75 kg) of dry mixture

Mix time Mixing time is minimum 10 minutes.

Mix tool Kemasan 550 is ready made mixture to which exclusively water may be added during the preparation. The ratio of the mixture is 25 kg of dry mixture Kemasan 550 per ~ 4,3-4,5 l of water. When using the V 80 l mixer, the best results are obtained when three sacks of Kemasan 550 are mixed with approx. 13 l of water. Plaster must be stirred to appropriate consistency for plastering and then left to rest for a minute. Stir it again for at least two minutes more until creamy consistency is obtained.

Installation The surface to be plastered has to be intensely moistened with water about half an hour before plastering. Apply Kemasan 550 by spraying directly onto a moistened wall and this way fill in joints, damage, and cracks. The spraying is applied only partly covering. After at least 12 hours of drying the surface is intensely moistened again and plastered with maximum 2 cm thick layer of plaster at a time. The maximum layer thickness must not be exceeded. To assure the functioning of Kemasan 550 plaster, it has to be at least 2 cm thick. All additional layers of plaster are applying in layers with 1 cm thickness. The final layer can be finished with wooden or plastic finishing trowel in one or two days on good moisture surface. After three weeks the restoration plaster Kemasan 550 may be painted with facade paint. Using a facade paint which has at least the same or higher vapour-permeability as Kemasan 550 is very important. The required vapour-permeability is achieved by silicate or silicone mineral colours, lime whitewash, and similar.

Tool For spraying is trowel suitable.
 For multiple layers is notched trowel suitable.
 For final layer is wooden or plastic finishing trowel suitable.

Cleaning of tool Clean tools immediately after the use before adhesive hardens. Hardened material on tools can only be removed mechanically.

LIMITATIONS

Base temperature +5°C min./ +30°C max.

Air temperature +5°C min./ +30°C max.

Material temperature +5°C min./ +30°C max.

Warnings

- Lime or other chemical additives must never be added to the plaster. The plaster is mixed to appropriate consistency for plastering. It must not be stirred for too long, as too many air pores create that cause the strength to decrease. For the same reason, it is not allowed to subsequently stir the plaster after it has been already stirred.
- The surface has to be intensely moistened with water before plastering. As well every individual layer of plaster has to be moistened before further plastering.
- During plastering and binding the air and surface temperature must not drop below 0°C. Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than +5°C.
- In order to prevent the plaster from drying too quickly while binding, the direct sunshine has to be avoided as well as strong wind. The facade surface has to be protected with protection curtains or sprinkled with water. As well the surface has to be protected from rain while binding.
- The Kemasan 550 restoration plaster is not a hydro isolation and must not be used in places where pressurised or leaking water is present.
- In cellars, where air moisture is high, sufficient ventilation must be assured for optimal functioning of the Kemasan 550 restoration plaster.
- Times specified in the technical sheet were measured at the temperature of +23°C and relative air humidity of 50 %. Higher temperatures reduce, while lower temperatures prolong those times.

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.

PROOFS

Norms/Standards In accordance with European standards 998-1:2004

SAFETY DATA

Irritating. Contains cement and lime. Irritating to eyes, skin and respiratory tract. In case of eye contact wash thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. 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

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