

Application instructions

For

Klimasan I, W, S, F

Version 02/2016



Product description

Klimasan Perlit products are purely mineral, non-organic, thermal insulation, renovation and fire safety plasters. They contain no polystyrene or synthetic materials. Klimasan-Perlit can be used on all types of masonry in old and new buildings. The quality of our products is guaranteed by initial testing processes as well as continuous company production controls. Klimasan-Perlit is suitable for interior and exterior use.

Preparation

Substrate

Check the substrate for compliance with VOB part C, DIN 18350, chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 section 3. Clean the substrate of dust and remove loose parts, ensuring that the surface is smooth. Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebeund Abdekarbeiten für Maler- und Stuckateurarbeiten" issued by the Bundesverband Ausbau und Fassade. To ensure a uniform, stable base, spray the surface with a mortar in the CSIII group. In the case of brickwork and aerated concrete substrates spray the whole surface. In the case of old buildings spray 50-70% of the surface. In circumstances where it is unclear what to do, for example in the case of walls of mixed materials, wood and concrete, it is vital to install a "Wellnet" as a base for the plaster.



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Mixing procedure

Application by machine: standard plastering machines (for example PFT G4, etc) that have been equipped with special insulation plaster fittings can be used.

Before turning the machine on it is recommended to fill the pipe with 2-3 litres of mixed, standard wall paper paste, this is to optimise the flow rate of the plaster and to conserve the material.

Start up the plaster machine with around 450 l/h (sight glass). The water intake can vary from between 300 and 500 l/h. The plaster consistency must be tested as it exits the machine before the pipe is connected and the water accordingly adjusted.

BEWARE! If the machine is paused for over 15 minutes, allow the machine to run without adding dry material for around 10 seconds! This is to ensure the material does not separate into wet and dry clumps in the transition area.

Application by hand: Mix the entire content of the sack with a mixing coil in a compulsory or free fall mixer while adding around 14-17l of clean water, without adding anything else. Do not exceed the maximum mixing time of 5 minutes. Clean machinery and tools directly after use.

Application

A minimum of 20mm of Klimasan should be applied to the prepared substrate and levelled flat. If you wish to apply Klimasan at a thickness of over 3cm, apply an initial layer of plaster (each layer may be up to 3cm). Each subsequent layer should then be applied in a further stage as “wet plaster on damp plaster”. The application time is around 4 hours.

If applying with a plaster base (e.g. “Wellnet”), it must be kept in mind that the first layer will be pulled into the base after application. After it hardens the next layer can be added. Roughen each lower layer with a broom. When the mortar has set sufficiently uneven areas with a lattice plane. After a suitable setting time, in the case of timber framed buildings or uncertain substrates, we recommend you lay a fabric into the whole surface of the finishing coat (around 3 – 4 cm of fine lime and press a 5x5 fabric into this. The next day finish with around 3mm of fine lime).

Consumption

The consumption is varied, depending on the application and surface. The actual consumption must be ascertained on the building site. The application time is maximum 4 hours.

Armouring

Generally, no mesh armouring is necessary. In the case of timber framed buildings or substrates where it is unclear what to do, a fabric should be pressed into the render.

Machine/ Equipment

For example: PFT G4 mixing machine with the “Klimasan” insulation plaster coil and rotor/stator (D6-3, D7-2.5) in the best possible condition.



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Application temperature/climate

Do not apply material at air and/or substrate temperatures below +5 °C and above +30 °C. Protect fresh mortar from frost and rapid drying.

Take special care:

Plaster must be applied according to EN 13914-2, DIN 18550 and DIN 18350, VOB part C as well as the generally recognized building engineering rules and valid guidelines. Only add clean water to the dry mortar, and nothing else. Turn the heating in the rooms on slowly. Too quick a pace of water loss (for example due to a dehumidifier) must be avoided.

If you have further questions regarding our products or their application we are happy to help:

You can reach us by telephone from Monday to Thursday from 6AM-4PM GMT, and on Fridays from 6AM-1PM

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All technical changes reserved. Only the current printed instructions are valid. The stated information represents current state-of-the-art technology. The entire state of approved engineering rules, appropriate standards, guidelines, and rules of craftsmanship are not included herewith. These and all application instructions have to be adhered to separately by the installer. Our warranty is expressly limited to our products in flawless condition. All application quantities and delivery amounts are based on empirical data that are not easily transferable to other deviating areas.



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