Hämeenkatu 9
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LIME-CEMENT COATING KSP

Product description

The Fescon Lime Cement Coating KSP is a through-coloured, polymer-modified lime cement based coating plaster that contains additives improving its weather resistance and reducing capillary water absorption.

- Just add water
- Good grip on the base
- Sprayable or hand applied
- Excellent weather resistance
- Breathable
- Several colour options

Applications

- Lime-cement plaster and brick surfaces
- Fescoterm plastering insulation system

The product is listed in the portal for building products that can be used in Nordic Swan Ecolabelled buildings.

Instructions

Base

The base must be undamaged and clean. Old paint and surface plaster can be removed with, for example, water sand blasting. Dry bases must be moistened. A dry surface needs to be wetted, while retaining the absorption capacity of the base. The filler must have properly hardened and be at least one week old before the finishing plaster is applied. Before starting work, apply a test coating to ensure the structure and tint. The tone of colour is affected by, among other things, the absorbing capacity of the base, the elasticity of the mass, the coarseness of the base and, of course, the sprayer itself (nozzle size, air volume and spraying work). An even flow of plaster from the hose is extremely important for the end result, and for that reason you must not let the container run empty in the middle of working.

Mixing

Refer to the bag for how much water the plaster requires. Add the dry material to the water and mix with a concrete mixer for around ten minutes. With a power mixer or a drill paddle, around one to two minutes of mixing is enough. Let the plaster stand for around ten minutes and mix it again for a short while. Find the correct consistency at this stage by gradually adding the rest of the water. We do not recommend adding all of the water right at the start. Every batch must be mixed in the same way. In order to ensure uniform colour, the different batches should have the same consistency and mixing time. The finished plaster remains workable for around two hours.

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Work instructions

The temperature of the base and air must be at least +5°C when applying coating and this temperature must be maintained for at least 3 days after coating. The most suitable conditions for coating are temperature of +10°C to +20°C and windless cloudy weather. Apply the plaster normally with a plaster pump or a funnel top sprayer. Apply at least two layers. Spray the first layer using more fluid plaster into a layer 2-3 mm thick, depending on the maximum grain size. Allow it to harden for at least one day before the second application. Use somewhat thicker plaster during the second spraying, applying a layer around 2-3 mm thick, depending on the maximum grain size and then levelled with a steel spatula pressing firmly onto the base. You can create different structures by varying the plaster plasticity, nozzle size, air volume and spraying distance. The more fluid the plaster, the larger the air volume and the smaller the nozzle, the finer the structure. For a plaster sprayer, a suitable spraying distance is around one metre, and for a funnel top sprayer around 0.6 metres. Spray with circular motions perpendicular to the surface. Spraying from too close to the surface will easily result in shiny patches. Dark colours require greater care than light colours when spraying. We recommend spraying contiguous surfaces at the same time. You should hide the working seams in corners, expansion joints or, for instance, behind drainpipes. There may be some differences in the colour of different manufacturing batches, so we recommend ordering the required amount of plaster all at once. The water-soluble salts in the cement and the salts formed during the hardening of the lime may rise to the surface with moisture and appear as efflorescence. Efflorescence is caused by rain too soon after plastering, moisture within the structure, thermal leakage and insufficient ventilation. The risk can be mitigated by protecting fresh surface plaster from rain. For the same reason, new facade should be allowed to dry for at least one heating season before coating it.

After treatment

The coated area must be protected with a plastic film or light spraying of water (the water must not flow) for at least one to three days. When the temperature is:
+20°C, protect the fresh coating from rain and strong sunlight for one day
+10°C, protect the fresh coating from rain for three days
+5°C, protect the fresh coating from rain for seven days
Plastering should be avoided in direct sunlight and in high winds. The lowest usage temperature is +5°C.

Service instructions

A dirty Lime Cement Coating can be cleaned with a pressure washer. Remove any damaged spots and repair the holes. Choose the repair plaster based on the binder-aggregate ratio and strength of the existing, undamaged plaster. Apply the service coating using Lime Cement Coating or Stone Colour KS using a colour chart colour that matches the serviced surface. Before coating, wet the area so that is damp enough to be darker in colour. Carry out the coating work either by spraying or manually, depending on the structure of the maintained/repaired surface, following the work instructions contained in the chosen product's data sheet. You should carry out the finishing very carefully in order not to reduce adhesion to the base. The repairs may stand out from the original surface as lighter spots before the colour differences even out during use. Keep wetting the repair plaster and coatings for one to three days after the coating work. One or two treatments are required depending on the structure and colour of the surface and the work method used.

Waste handling

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Storage and handling of waste
See the separate storage and disposal instructions https://www.fescon.fi/en/material-bank

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Technical information

Material usage	Approx. 6 kg/m^2
Water requirement	5.0 - 6.5 l/25 kg
Finished compound	13-15 l/25 kg
Colour	As per colour chart
Maximum grain size	1.5 mm
Package size	25 kg
Storage	Storage time in a dry location approx. 1 year
Density	Approx. 1.80 kg/dm^3
Lowest usage temperature	+5°C
Workability time	1-2 h
Plasticity	(Hägermann) approx. 200 mm
Air content	Approx. 15%
Frost resistance	100 melt-freeze cycles, no damages
Water retention capacity	Approx. 95%
GWP A1-A3	0,32
GWP unit	kg CO2e/kg
Method for calculating the GWB value	Generic

Limitation of liability, product use notes and restrictions: Please familiarize yourself with Fescon Oy's general terms of delivery and the design and work instructions related to the product.