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INDOOR LIME-CEMENT PLASTER SR 7



Product description

Fescon Indoor Lime-cement Plaster SR7 is a quickly hardening and drying indoor lime-cement plaster that can be sprayed or applied manually, containing special cement binders, fibre-reinforced. Suitable for use walls and ceilings, dry, damp and wet areas. Maximum grain size 1.2 mm.

- Layer thickness: 5 - 30 mm, partial levelling max. 50 mm
- Can be waterproofed in 2–4 days (layer thickness less than 20 mm)
- A surface that can be waterproofed in one work stage
- Straightening walls and ceilings and filling chases in dry, damp and wet areas

Applications

- Straightening of aggregate-based walls and ceilings, surface filling, and filling of chases in dry, damp and wet areas
- Can be used to fill chases

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

Instructions

Base

- The substrate structure must be more than +10°C.
- Concrete substrate, block surface, lightweight concrete, sandlime brick or burnt bricks.
- The substrate must be clean, solid and dust-free. The substrate must be sufficiently hard, immobile and load-bearing.
- Loose layers, cement paste and any other impurities have been removed mechanically to ensure adhesion between Indoor lime-cement plaster SR 7 and the substrate.
- Any smooth substrates are roughened to ensure adhesion.
- If necessary, use a plaster net for reinforcement between two different substrate materials. The net can also reduce surface cracking if the substrate material is already cracked. Nevertheless, it must always be checked that cracking is not the result of movement of the building frame.

Priming

- The substrate must be sufficiently damp before indoor lime-cement plaster SR 7 is applied.
- The substrate is dampened with water to prevent the water in the indoor lime-cement plaster from being absorbed too quickly into the substrate. The indoor lime-cement plaster must remain damp during the hardening, so that the hardening reaction takes place correctly and the desired hardness is obtained. Having an initial matt damp surface prevents plastic cracking and the surface from coming off the substrate. There may be no water drops on the substrate.

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- Liquid Fescon adhesive primers can be used with SR 7 if necessary.
- In renovation sites, where the substrate is very dry and absorbent, we recommend multiple rounds of dampening or adhesion priming.

Work instructions

- The work site must be protected from strong winds, sunshine and rain.
- During straightening and when the indoor lime-cement plaster is hardening, the indoor temperature must be +10°C…+25°C.
- A sack (20 kg) of dry powder is mixed with 4.8–5.2 litres of clean water. You should not add to the maximum amount, at least in the beginning. The indoor lime-cement plaster has the right amount of water when the paste does not flow on the surface to be straightened.
- The amount of water must be as instructed in the product card. Deviating from the recommended amount of water has an adverse effect on the indoor lime-cement plaster's drying time, strength properties, increases the bleeding risk, affects the strength development, and weakens workability.
- Indoor lime-cement plaster SR 7 is mixed carefully and for long enough to create a uniform paste (using, for example, a mixing paddle connected to a power drill, or an automatic or continuous mixer).
- When using a plaster mixing paddle, allow the paste to rest for 2–5 minutes, then mix briefly again and check the correct amount of water.
- Indoor lime-cement plaster SR 7 is applied on the substrate either by spraying or with a steel trowel.
- The surface is smoothed with a steel trowel to the desired quality.
- Surfaces are straightened using guide rails or planks along which the straightedge is run. When adjusting corners, install a guide plank along which you can apply the indoor lime-cement plaster neatly.
- On large surfaces, the recommended layer thickness is 5–30 mm. The best result is obtained by first spraying a thin layer of plaster, followed by a spray to the desired thickness in accordance with the wet-on-wet principle.
- Thicker layers are created as multiple thinner layers, allowing the previous layer's surface to remain coarse and to dry for about 24 hours before applying the next layer. When filling holes, the maximum depth can be 50 mm.
- Can be levelled after about 24 hours.
- Workable for about 30 minutes to one hour after adding water.
- When finished working, wash the tools immediately with water.
- Any dried Indoor lime-cement plaster SR 7 is removed mechanically.

Covering

- Indoor lime-cement plaster SR 7 can be waterproofed immediately with Fescon waterproofing products.
- Can be filled over with suitable Fescon wall fillers.
- Indoor lime-cement plaster can be covered directly with ceramic tiles.
- Check the humidity of the entire wall structure before installing any coating or waterproofing.
- Indoor lime-cement plaster may not be left without coating for more than one month as it may crack and break off.
- In order for indoor lime-cement plaster to dry well, the relative humidity of indoor air must be less than 50% and the temperature more than +20°C. Poor conditions slow down the development of indoor lime-cement plaster's strength properties and extend the drying period.

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Waste handling

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	1 mm layer approx. 1.3 kg/m^2
Water requirement	4.8 - 5.2 l / 20 kg
Type	Powder
Binder	Special cement
Aggregate	Limestone powder and natural sand. Limestone powder contains small amounts of quartz, but the weight content of alveolar quartz is less than 1%, so the product is not classified as harmful in terms of quartz.
Colour	Grey
Maximum grain size	1.2 mm
Package size	20 kg
Storage	Storage time in a dry location approx. 1 year
Layer thickness	5 - 30 mm, partial levelling 10 - 50 mm
Fibre	Fibre-reinforced
Usage temperature	+10°C...+25°C
Workability time	0.5 - 1 h
Coatable	Can be waterproofed for 2–4 days < 20 mm, > 20 mm layers extend the drying period (+20°C, relative humidity 50%)
Compressive strength	Class CSIII(EN 998-1)
Adhesion strength	> 0.5 MPa for concrete (28 day +20°C, RH 50%)
Surface tensile strength	> 0.4 MPa (28 day +20°C, RH 50 %)
Reaction to fire	A1
Heat conductivity	< = 0.2 W/mK
Frost resistance	Non-frost resistant, for indoor spaces
Waterproofness	Water-resistant
GWP A1-A3	0,32
GWP unit	kg CO2e/kg
Method for calculating the GWP 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.