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OVERLEVELLING PLASTER COARSE YTLK

Product description

Fescon Overlevelling plaster Coarse YTLK is a polymer-modified, frost-resistant repair mortar for concrete surfaces. Levelling plaster is used for levelling concrete surfaces, closing pores and finishing, in accordance with repair method 3.1 (manual mortar patching) and/or 3.3 (injection). The maximum grain size is 1.2 mm.

- Good grip on the surface
- Can be sprayed and applied using a spatula
- Can be rubbed and slammed
- Slows down the carbonation of concrete
- Easy to use
- Good workability characteristics

Applications

- Closing the pores of concrete structures
- Finishing of concrete structure repairs outdoors and indoors (3–10 mm)
- Facade smoothing and coating (3–10 mm)

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

Instructions

Base

- The temperature of the base should be +5°C...+25°C.
- Deep holes are repaired using Repairing plaster KL 25+ and KL 40+, Repair Concrete RKB or Korrogard R products in accordance with product card instructions. Mastic should not be rubbed onto the surface.
- The patch sites should be allowed to harden completely before levelling.
- The base must be clean and dust free. A coarse surface produces the best adhesion.
- In outdoor areas, it is recommended that the base is cleaned with water using a high-pressure washer, thus providing the base with the necessary moisture.

Priming

- The concrete base is wetted with water to matte moistness. There must be no loose water. Starting the wetting the night before installation is recommended so that the water is absorbed deep enough into the base. In renovation sites with a very dry base that absorbs moisture, it is recommended that the base is wetted several times.
- The concrete base must be sufficiently moist to prevent water in the product from being absorbed into the base too quickly.
- Additional adhesion promoters should not be used.

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Mixing and application

- The workspace must be protected from strong wind, sunshine and rain.
- During mortar application and product hardening, the temperature should be +5°C...+25°C.
- A bag (20 kg) of dry powder is mixed with 3.6 to 4.4 litres of clean water. We recommend that you initially mix the minimum amount of water and add water as necessary. The amount of water specified in the instructions must not be exceeded, as this reduces the strength values of the product, increases the risk of separation and prolongs the drying time. When casting wall surfaces, the amount of water in the product is suitable when the product does not drain when installed.
- The product is mixed into a uniform mass using a paddle mixer, concrete mixer, horizontal pan-mixer or continuous mixer.
- Allow the mixed mortar to stand for about 10 minutes, after which a short second mixing is done.
- The working time is roughly 2 hour from the mixing.
- The product can be applied by spraying or spatula. The product is compacted and straightened with a liner tool. When necessary, the prepared surface should be rubbed to reach the quality level required in the application. For example, use a polyurethane rubbing tool and/or a steel spatula to even up. Surface rubbing can be carried out when the product has slightly solidified. The surface can also be as a sprayed surface.
- Surface adjustments can be made using guide mouldings or boards along which the liner is pulled. When straightening corners, a guide board is used against which the product can be spread straight.
- On large surfaces, the recommended layer thickness is 3–10 mm. Thicker layers are made with several separate layers so that the lower layer is allowed to dry for 24 hours before the next layer is applied.
- Wash the tools with water immediately after the work has been completed.

Aftercare

- The surface is kept moist for 1 to 3 days, depending on the conditions and location, either with water spray or plastic film.
- Sufficient moisture of the mortar must be ensured during the curing phase so that the curing reaction works correctly and the desired strength is achieved. This also prevents possible plastic cracking and surface detachment from the substrate.
- Especially in the spring and on heated sites, aftercare should be started immediately and carried out carefully, since in the spring the relative humidity of the air is often less than 40% RH. Low relative humidity combined with sunlight and wind dries the surface very quickly.

Other considerations

- When levelling floor surfaces, the requirements set by the coating must be ensured.

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	1.8 kg/m^2/mm
Water requirement	3.6 - 4.4 l / 20 kg
Type	Powder
Colour	Grey
Maximum grain size	1.2 mm
Package size	20 kg
Storage	Storage time in a dry location approx. 1 year
Layer thickness	3 - 10 mm
Usage temperature	+5°C...+25°C
Workability time	2 h
Compressive strength	Approx. 20 MPa
Adhesion strength	> 1,5 MPa
Flexural bond strength	> 2,0 MPa
Shrinkage	Approx. 1.2 ‰ (28 d prisma)
Linear expansion coefficient	(1/°C) < 15 x 10^{-6}/°C
Carbonation	Approx. 7 mm (91 days, accelerated test)
Water retention capacity	> 90%
GWP A1-A3	0,46
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.