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SILKO CORRO SKC C35/45

CE SILKO



Product description

Fescon SILKO Corro C35/45 10mm is a special concrete for demanding casting applications.
- SILKO-approved (SILKO tested on 4 Feb 2014)
- Compressive strength C35/45
- Easy to compact
- Good salt-frost resistance
- Good adhesive properties
- Very slow carbonation

Minimum delivery 3 big bags.

Applications

- Demanding casting under salt and frost stress
- Bridges, harbours and parking garages
- Mould casting, horizontal surfaces
- Heavily reinforced sites
- Filling and grouting of element structures

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

Instructions

Base

Excellently suited to recasting structural members. Where the newly cast mass joins old concrete, the base must be undamaged, rough, damp enough to be darker in colour and sufficiently strong (see compression strength). There must be no cement paste on the surfaces. Begin wetting the base on the previous day. The required amount of wetting depends on the weather conditions and, for instance, the strength of the base. You must always ensure that there is no standing water on the base when starting rendering. If necessary, reinforce the structure.

Mixing

Total water requirement is around 2.6 l/25 kg of dry product. Add the dry material to the water and mix with a power mixer for around one to two minutes allow to stand for five minutes and mix again for a short while. Find the final consistency at this stage by adding water when necessary. However, keep the total amount of water below 11% of the dry product. The finished plaster remains workable for around one hour.

Work instructions

Adhesion to the base concrete is ensured through careful compacting and, if necessary, by applying a separate adhesion layer on the base with a brush. Do not allow the adhesion layer to dry before spreading the plaster. If necessary, use the separate Adhesive Plaster. The minimum thickness of a

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casting layer is 30 mm. (Maximum around 200 mm as a continuous surface, unless cooling is separately taken care of.) Casts must always be moulded and, when necessary, reinforced. The lowest working temperature is +5°C.

After treatment

The aftercare must be begun immediately after the plaster has been spread and must continue for at least seven days. We recommend using plastic covering / curing compound and a hood. The aftercare is stopped in stages. When a casting connects to old concrete, you must pay special attention on not only aftercare but also the preparation of the base and the casting work itself to avoid cracks. The importance of planning is also increased, and the need for reinforcement must be considered on a case-by-case basis.

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

Water requirement	Approx. 2.6 l / 25 kg
Finished compound	11 - 12 l / 25 kg bag
Type	Powder
Colour	Grey
Maximum grain size	10 mm
Package size	1000 kg
Storage	Storage time in a dry location approx. 1 year
Lowest usage temperature	+5°C
Workability time	1 h
Strength class	C 35/45
Compressive strength	K 45
Adhesion strength	> 1.5 MPa
Strength development	7 days approx. 40-50 MPa28 days approx. 50-60 MPa
Reaction to fire	A1
Exposure class	XF 4, XC 4, XS 3, XD 3 (50 years) XF 3, XC 4, XS 3, XD 3 (100 years)
Carbonation	0 mm (according to the Silko test programme)
Frost resistance	Adhesion strength > 1.5 MPa (no cracking, erosion or lamination)
GWP A1-A3	0,46
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.