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# KORROSHOT D KSD 5.0 MM

CE SILKO




**Product description**

Fescon Korroshot D is a polymer-modified and fibre-reinforced special concrete for dry spraying.

- SILKO-approved (19 March 2012)
- Compressive strength 50-60 MPa (28 days, +20°C)
- Low drying shrinkage
- For dry spraying
- Frost-resistant
- Good adhesive properties

*Minimum delivery 3 big bags or 3 pallets of small sacks.*

**Applications**

- Facade repairs
- Adding a protective concrete shield
- Structural repairs
- Rock reinforcements
- Difficult-to-mould casting applications
- Repairs of bridges

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

**Instructions**

## Base

Remove damaged concrete, for example by chiselling or water sand blasting. The base must be undamaged, clean, and damp enough to be darker in colour. Begin wetting the base on the previous day. In dry conditions, wet the base during the work as well. Best adhesion can be achieved to a rough base.

## Mixing

In order to reduce dust problems and to ensure an even spraying result, wet the concrete before spraying. A suitable moisture level is around 6% by weight. The pre-wetting is easiest by using Fescon Oy's automatic mixer & silo combination. The workability time of pre-wetted concrete is less than two hours.

## Work instructions

The work must be performed in accordance with the Road Administration's SILKO guidelines and BY 29 Shotcreting Instructions (1993). The maximum layer thickness sprayed at a time is around 50 mm depending on the conditions. Reinforcements/meshing in accordance with the designer's instructions. When spraying sections with water leaks, you can use an accelerator. When spraying

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several layers, the previous layer must be strong enough. If you wish, you can float the shotcrete surface. Brushing is also possible. The lowest usage temperature is +5°C. Ensure that the temperature does not fall below 0°C during aftercare.

## After treatment

Shotcrete must be given aftercare until its strength is 60% of the nominal strength. This means at least for seven days. Give aftercare by spraying with water or applying a curing compound. The longer the aftercare, the better the end result. Follow the SILKO instructions and the BY 29 Shotcreting instructions (1993) in aftercare as well.

### 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

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|---|---|
| **Water requirement** | Approx. 8.8% of dry product |
| **Finished compound** | Approx. 450 l/1000 kg of dry product |
| **Type** | Powder |
| **Colour** | Grey |
| **Composition** | Portland cement, natural sand 3 mm, polymer and fibre reinforcement |
| **Package size** | 25 kg and 1000 kg |
| **Storage** | 12 months from the manufacturing date |
| **Workability time** | < 2 h when pre-dampened |
| **Compressive strength** | 7 days approx. 50 MPa<br>28 days 50 - 60 MPa (EN 12190)<br>Strength depends on the amount of water used and the aftercare |
| **Adhesion strength** | > 1.5 MPa (EN 1542) |
| **Reaction to fire** | A1 |
| **Carbonation** | 2 mm (according to the Silko test programme) |
| **Frost resistance** | Adhesion strength > 1.5 MPa (EN 13687) (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.