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# KORODUR FSCem Screed

**dimensionally stable fast-setting screed dry mortar acc. to DIN 18560 and DIN EN 13813**

## DESCRIPTION

KORODUR FSCem Screed is a dimensionally stable fast-setting screed dry mortar on ternary basis for the production of screeds that are early ready for covering, for layer thickness up to 120 mm acc. to DIN 18560 and DIN EN 13813 (quality CT-C40-F6).

## APPLICATION

For the production of cement screeds that can be quickly covered, e.g. as underlayment screed up to layer thickness of maximum 120 mm, indoors and outdoors:

- on separation layer
- as bonded screed
- on insulation layer
- as heated screed

As sub-base for the installation of KORODUR/NEODUR hard aggregate screeds, KORODUR decorative screeds, coatings, ceramic tiles, natural stone tiles, cast concrete tiles, parquet and laminate as well as elastic and textile coverings.

KORODUR FSCem Screed is also suitable for the repair and renovation of worn concrete floors, the repair of cementitious sub-bases for screed installation as well as for the setting of ground anchors and fence posts. KORODUR FSCem Screed must always receive a covering layer.

## PROPERTIES

- fast-setting
- fast-drying
- dimensionally stable
- nearly shrinkage and tension-free
- crack-free setting
- shortened construction time
- quickly usable and ready for covering
- water-resistant, suitable in wet areas
- frost-resistant
- electrostatically non-chargeable
- non-flammable
- physiological and ecological harmless
- pumpable

## TECHNICAL DATA

|   |  |
|---|--|
| <b>Quality</b>  | CT-C40-F6  |
| <b>Granulometry</b>   | 0 - 6 mm   |
| <b>Colour</b>   | cement grey  |
| <b>Compressive strength</b> [N/mm <sup>2</sup> ]<br>measured on defined prisms acc. to DIN EN 13892-2 | after 1 day approx. 20 N/mm <sup>2</sup><br>after 28 days approx. 40 N/mm <sup>2</sup> |
| <b>Flexural strength</b> [N/mm <sup>2</sup> ]<br>measured on defined prisms acc. to DIN EN 13892-2    | after 1 day approx. 4 N/mm <sup>2</sup><br>after 28 days approx. 6 N/mm <sup>2</sup>   |
| <b>Shrinkage class</b> acc. to DIN 18560-1  | SW 1 – low shrinkage (< 0,2 mm/m)  |
| <b>Fire class</b>   | A1 <sub>fl</sub>   |
| <b>Temperature</b><br>processing, ambient and sub-base temperature                                    | ≥ 5 °C   |
| <b>Processing time</b><br>depending on the installation method and water dosage                       | approx. 60 - 80 minutes  |
| <b>Water addition</b><br>liter per 25 kg bag  | approx. 2,5 - 2,75 l/25 kg   |

# KORODUR FSCem Screed

|  |   |               |
|--|---|---------------|
| <b>Residual moisture</b><br>CM-measurement after installation                          | after 24 hours approx. 5,9 %<br>after 3 days approx. 1,9 %<br>after 28 days approx. 1,3 % |               |
| <b>Layer thickness</b> (nominal thickness)<br>acc. to DIN 18560                        | as bonded screed  | minimum 15 mm |
|  | on separation layer   | minimum 35 mm |
|  | on insulation layer   | minimum 40 mm |
|  | as heated screed (from top edge of heating pipe)  | minimum 40 mm |
|  | as underlayment screed  | up to 120 mm  |
| <b>Ready for foot traffic</b><br>depending on the installation method and water dosage | after approx. 4 hours   |               |
| <b>Material consumption</b><br>per m <sup>2</sup> per mm layer thickness               | approx. 2,1 kg/m <sup>2</sup> /mm   |               |

Hints: All the afore-mentioned technical data are examples.

## PROCESSING

### Mixing

Mix KORODUR FSCem Screed in screed machine or pan type mixer with the specified quantity of water to a homogenous mix. Adjust a stiff-plastic consistency. When using pneumatic screed conveyors, the recommended filling quantities of the machine manufacturer must be observed.

### General processing hints

Apply the fast-setting KORODUR FSCem Screed quickly in uniform layer thickness, compact, level and smooth. For mechanical smoothing use hand-held one-disk equipment. Only apply an area size as can be treated within the processing time. Perimeter and movement joints have to be taken over. When installed as bonded screed, exclusively use the system bonding compound KORODUR HB 5 rapid, see data sheet.

Higher temperatures shorten, lower temperatures extend the processing time. In outdoor areas, exposed to air drafts or low humidity, the fast-setting screed has to be protected from too rapid drying out with foil. The readiness for covering must be ensured by checking the residual moisture with the CM-device.

### Underfloor heating

The heating can start from the third day after installation at a flow temperature of +25 °C. For further proceeding and information refer to relevant standards and guidelines, e.g. the BEB guideline "Interface coordination for panel heating and cooling systems in new buildings".

## JOINTS

When installed as bonded screed, all joints in the base concrete have to be taken over. The screed must be separated from uprising masonry (walls, columns etc.).

## SUPPLY

25 kg special paper packaging  
big bag

## STORAGE

Dry, like cement. Shelf-life approx. 12 months.

**HINTS:** This product contains cement and has an alkaline reaction with moisture/water. Therefore, protect skin and eyes. In case of contact with eyes, consult a doctor. The specifications provided in this data sheet for application and processing are based on tests carried out by KORODUR under ideal conditions in the laboratory and acc. to the relevant technical regulations. Therefore, the indicated data don't represent directions for application or a quality agreement in the meaning of § 434 (1) BGB, no regulation in the meaning of § 434 (2) sentence 2 BGB (German Civil Code) and no guarantee for practical application. Due to the differing conditions on site, preliminary own tests and suitability checks are required before application. Please consider the currently valid product information as well as the relevant safety data sheet acc. to Regulation (EC) No. 1907/2006 in the latest version – also published on the internet: [www.korodur.de](http://www.korodur.de).



Certified  
quality management system  
DIN EN ISO 9001:2015



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