



KORODUR COPETTI FLOOR - KCF

as per 10/2023

**mineral KORODUR decorative screed
in marble, smoothed optics**

DESCRIPTION

KCF 05 and KCF 08 are factory produced, mineral, coloured dry mortars on the basis of KORODUR hard aggregates acc. to DIN 1100 (group A) for the production of smoothed, decorative screeds in marble optics in layer thickness from 15 mm to maximum 70 mm, depending on the construction.

APPLICATION

KCF 05 and KCF 08 are installed in one or two layers acc. to

- DIN 18560-2 screeds and heated screeds on insulation layer
- DIN 18560-3 bonded screeds with KORODUR HB 5 bonding compound (see data sheet)
- DIN 18560-4 screeds on separation layer

KCF 05 is also available as fast-setting variant - KCF 05 rapid (with dimensionally stable binder on ternary basis) (see data sheet).

PROPERTIES

- resistant against mechanical stress
- mineral
- durable, sustainable
- anti-skid
- chloride-free
- physiological and ecological harmless
- consistent quality ensured by quality assurance acc. to DIN EN 13813

TECHNICAL DATA

Quality	KCF 05 KCF 08	CT-C45-F6-A6 CT-C35-F5-A6
Granulometry	KCF 05 KCF 08	0 - 5 mm 0 - 8 mm
Colour	all qualities	cement grey, other colours on request
Fire class acc. to DIN EN 13501-1	all qualities	A1 _{fl}
Wear resistance abrasive wear acc. to Böhme acc. to DIN EN 13892-3	all qualities	≤ 6,0 cm ³ /50 cm ²
Compressive strength [N/mm²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	KCF 05 KCF 08	C45 C35
Flexural strength [N/mm²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	KCF 05 KCF 08	F6 F5
Temperature processing, ambient and sub-base temperature	all qualities	≥ 5 °C
Water addition	KCF 05 KCF 08	approx. 2,50 l/25 kg bag approx. 2,25 l/25 kg bag
Layer thickness, depending on installation method acc. to DIN 18560-3 in one layer as bonded screed acc. to DIN 18560-4 in one layer on separation layer acc. to DIN 18560-2 in one layer on insulation layer	KCF 05 KCF 08 KCF 08 KCF 08	15 - 25 mm 25 - 50 mm 35 - 70 mm 45 - 70 mm
Material consumption per m ² / per mm layer thickness	all qualities	approx. 2,1 kg

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PROCESSING

Sub-base

Prepare the cementitious sub-base as supporting concrete in strength class C25/30 or as base screed in strength class at least CT-C40-F6, e.g. by milling and shot-peening. Existing cracks, break-outs and damaged joints must be professionally repaired. Surface bond strength $\geq 1,5 \text{ N/mm}^2$ for areas subject to traffic stress or $\geq 1,0 \text{ N/mm}^2$ for areas not subject to traffic stress. The sub-base must be load-bearing, solid, clean, dry and free from loose debris, oils, grease or other contaminants that may impair adhesion. The requirements of DIN 18365 and DIN 18560-3 apply. Joints in the sub-base have to be taken over. Pre-treat supporting concrete or screed with universal primer KORODUR uniPrimer (see data sheet) or alternatively pre-wet thoroughly one day before installation, avoid puddle formation.

As supporting concrete, use only cementitious concrete systems acc. to strength class $\geq \text{C } 25/30$. As supporting screed, use only low shrinkage, fast-setting screed systems on basis of ternary binders KORODUR FSCem Screed (dry mortar) or KORODUR FSCem (screed binder for mixing on site) acc. to DIN 18560 and DIN EN 13813 in quality CT-C40-F6. Layer thickness min. 65 mm.

Processing

Apply KORODUR HB 5 bonding compound system-compliant on the matt-damp surface (see data sheet). Mix KCF dry mortar with the specified quantity of water in plastic consistency for approx. 3 minutes and apply fresh on fresh on the still moist bonding compound, strike off aligned and trowel pore-closing with disk float. Then smooth repeatedly with wing float until a shiny structure is achieved. Edge areas to be smoothed manually.

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process. KCF must be protected from too rapid drying out acc. to DIN EN 13670 / DIN 1045-3. For after-treatment of the decorative screed we recommend the use of appropriate covering materials (e.g. 400 g painters' cardboard). The KOROCLEAN procedure offers a reasonable alternative to the conventional final site cleaning.

JOINTS

The joint grid must be specified by the planner. Joints in the set base concrete/base screed have to be taken over in the decorative screed layer. The decorative screed must be separated from uprising masonry (walls, columns etc.).

FIRST CARE TREATMENT

To ensure lasting quality and appealing optics, the whole surface, after sufficient drying and setting, must be cleaned pore-deep and first care treated. Various products are available on request.

SUPPLEMENTARY HINTS

Coloured products are exclusively produced from natural raw materials. Thus, colour deviations cannot be excluded. The printed colour may deviate from the original colour shade. Test areas are recommended. For the surface treatment of coloured, especially light-coloured decorative screeds, we recommend the use of plastic blades to avoid discoloration due to abrasion or heat development. Avoid contact with tools made of aluminium (e.g. levelling aids), as this may result in discoloration due to interaction. Fine crack formation (hairline cracks) or deformation by shrinkage within the system (decorative cement screed) cannot generally be excluded and thus are not considered as defect.

SUPPLY

25 kg special paper packaging

STORAGE

Dry, like cement. Shelf-life approx. 6 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.