



GRANIDUR



per 03/2021

mineral, polished KORODUR decorative screed in granite optics

DESCRIPTION

GRANIDUR 05 and GRANIDUR 08 are factory-produced, mineral, coloured dry mortars for the production of polished, decorative screeds in granite optics, in layer thickness from 15 mm to maximum 70 mm, depending on the construction.

GRANIDUR 05 and GRANIDUR 08 are applied 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

GRANIDUR 05 is also available as fast-setting variant - GRANIDUR 05 rapid (with dimensionally stable screed binder on ternary basis).

APPLICATION

Use for polished, decorative screeds in sales rooms, museums, show rooms, boutiques, foyers, office and administrative buildings, restaurants, galleries etc.

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	GRANIDUR 05 GRANIDUR 08	CT-C45-F6 CT-C35-F5
Granulometry	GRANIDUR 05 GRANIDUR 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}
Compressive strength [N/mm ²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	GRANIDUR 05 GRANIDUR 08	C45 C35
Flexural strength [N/mm ²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	GRANIDUR 05 GRANIDUR 08	F6 F5
Temperature processing, ambient and sub-base temperature	all qualities	≥ 5 °C
Water addition	GRANIDUR 05 GRANIDUR 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	GRANIDUR 05 GRANIDUR 08 GRANIDUR 08 GRANIDUR 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 sub-base, as base concrete in strength class C25/30 or as base screed in strength class C35-F5, e.g. by milling and shot-peening. Existing cracks, breakouts and damaged joints must be properly repaired. Surface bond strength $\geq 1,5 \text{ N/mm}^2$ for areas with traffic stress or $\geq 1,0 \text{ N/mm}^2$ for areas without traffic stress. The sub-base must be load-bearing, solid, clean, dry and free from loose debris, oils, greases or other contamination impairing the bond. The demands acc. to DIN 18365 and DIN 18560-3 apply. Joints in the sub-base have to be taken over.

As base concrete, use only cementitious concrete systems acc. to strength class C 25/30. As base screed, use only cementitious, low shrinkage, mechanically smoothed screed systems, layer thickness minimum 65 mm, minimum strength class CT-C35-F5, in a structure-dense consistency, e.g. with the use of the dimensionally stable, fast-setting screed KORODUR FSCem Screed or the fast-setting screed binder KORODUR FSCem (see data sheets).

Processing

The prepared sub-base (concrete) is thoroughly pre-wet, avoiding puddles. Apply the KORODUR HB 5 bonding compound system-compliant on the matt-damp surface (see data sheet). Mix GRANIDUR 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, trowel pore-closing with disk float and smooth (wing float).

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process. GRANIDUR 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).

JOINTS

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

GRINDING / POLISHING

The GRANIDUR surface is polished in up to 5 polishing steps (rough, medium and fine polishing) to achieve the desired optics. The grain structure of the GRANIDUR material becomes visible (terrazzo optics). See also specifications grinding technique of companies MKS Funke / Schwaborn. After polishing, repeated mechanical wet cleaning of the surface.

FIRST MAINTENANCE TREATMENT

To ensure lasting quality and appealing optics, the whole surface, after sufficient drying and setting, must be cleaned pore-deep and first maintenance 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. Coloured floors, in particular light-coloured floors, should not be treated with aluminium tools, e.g. leveling boards, smoothing blades, as undesired discolouration may occur. For smoothing use e.g. only plastic blades. Fine crack formation (e.g. hairline cracks) or deformation by shrinkage within the system (decorative cement screed) cannot 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.