RE 50

Renovation screed

Free-flowing fine screed for layer thickness of 10 – 50 mm

CT-C25-F4 acc. DIN EN 13813 / DIN 18560

- suitable for efficient mechanical processing
- can be laid with ceramic surfaces after approx. 24 hours

APPLICATIONS

- for levelling heated or unheated cement and calcium-sulphate-bonded screed on insulation or separating layers, concrete substrates, old ceramic surfaces, composite dry and asphalt screeds
- for embedding of aquiferous thin-layer heating systems
- suitable as heated screed for surfaces up to approx. 10 m²
- substrate for topcoats, e.g. tiles, natural stone, parquet, carpet etc.
- for interior use

PROPERTIES

- very low emissions EC 1^{PLUS}R according to GEV-EMICODE
- low shrinkage
- relieves tension
- can be machine-processed
- free-flowing
- rapid hardening
- mineral

COMPOSITION

- cement in accordance with DIN EN 197-1
- quartzite aggregates according to DIN EN 13139

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SUBSTRATE

General	■ Cement and calcium sulphate screeds, heated and unheated ■ Concrete ■ firmly bonding ceramic coverings ■ Asphalt screeds ■ Dry screeds
Properties/tests	■ The substrate must be dry, ready for covering, hardened, load-bearing, vibration and crack-free, clean and free of contamination and separating layers of any kind (e.g. coats of paint, oils, etc.). ■ At the time of laying, cement screeds must have a residual moisture ≤ 2.0 CM % (unheated) or ≤ 1.8 CM % (heated). ■ Calcium sulphate screeds must have a residual moisture of ≤ 0.5 CM % (heated and unheated).
Pretreatment	■ The substrate must be primed to seal the pores in order to regulate the absorbency. ■ Cement-based substrates are to be primed “wet-in-wet” beforehand, e.g. with quick-mix H4 bonding bridge. ■ Calcium sulphate screeds are to be sanded and vacuumed if necessary. Poured asphalt and calcium sulphate screeds of one layer to be pre-treated with strasser PRIM EG epoxy primer in one layer or with strasser PRIM ESA epoxy-resin protection coat in two layers and sanded off with strasser PLUS GQS coarse silica sand. Once hardened, remove excess, loose sand thoroughly. ■ In case of underfloor heating or constant moisture penetration and ground moisture or substrates than cannot be estimated, e.g. basement areas, the screed is to be pre-treated with strasser PRIM ESA epoxy-resin protection coat. ■ Edge insulation strips on walls and other rising components must be installed professionally according to DIN 18560. ■ On all rising components, such as wall connections, the strasser PLUS RDS edge insulation strips must be attached so as to rule out underrunning. ■ Expansion, contraction or building separation joints already present in the substrate are to be adopted in the same arrangement by the whole cross-section of the system. ■ When laying on insulation, the whole area and the edge insulation strips are to be additionally masked by a film, thereby creating a sealed trough. ■ Critical substrates or those sensitive to moisture are to be pre-treated with strasser PRIM EG epoxy-resin primer or with strasser PRIM ESA epoxy-resin protection coat to protect against moisture entering from the fine screed or for hardening purposes.

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PROCESSING

Temperature	■ Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.
Mixing / Preparation / Processing	■ Mix contents of bag with clean tap water without lumps to a free-flowing consistency. ■ Put amount of water in place and mix intensively with a suitable agitator. ■ After the maturing time, stir the mortar again briefly. ■ The appropriate screw conveyor is selected depending on the required conveying capacity: PFT D 6-3 (approx. 20 l/min) for areas up to 50 m², PFT D 8-1.5 (approx. 30 l/min) for areas up to 100 m² and PFT R 7-2.5 (approx. 40 l/min) for areas > 100 m². ■ To adjust the necessary amount of water, the slump flow is to be determined. Allow fresh mortar taken out of the mixing pump to stand for 4 minutes, fill and lift measuring container and determine slump flow. Alternatively, a 5.2-cm high PE tube DN 100 can be used on a non-absorbent surface. ■ Slump flow: 29 cm ■ Do not mix with other products and/or other substances.
Processing	■ Pour or pump free-flowing fine screed onto the prepared substrate and fill in intensively with a squeegee or trowel and distribute evenly until the required layer thickness is reached. ■ The surface must then be finished thoroughly with a screeding rod to help the mortar to run flat. Working through the process twice offset at a 90-degree angle provides the best results.
Processing / Working time	■ approx. 30 minutes ■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied. ■ The stated times apply for a temperature of +20°C and relative humidity of 65%.
Drying / Hardening	■ When using on underfloor heating systems, the heating in preparation for covering is to be carried out according to the strasser heating protocol. ■ The time it takes to be ready for covering depends on the building site situation, layer thickness, ambient temperatures as well as the subsequent coating. High temperatures and low humidity levels accelerate the process, whilst low temperatures and high humidity levels slow it down.
Subsequent coating / Suitability for coating	■ A final coat must be applied as a matter of principle. ■ The completed screed is to be inspected with regard to its surface properties according to the rules of technology before installing the surface covering. ■ The surface must be sanded before applying the surface covering. ■ Ceramic tiles are ready to be covered after approx. 1 day with a bonded installation. For vapour-proof coverings sensitive to moisture, such as parquet, the specifications issued by the manufacturer regarding the permitted residual moisture should be observed. ■ After completing the screed, a final coat is to be applied within 3 - 5 days. Otherwise, on an unheated screed, a sealing primer must be carried out with strasser PRIM EG epoxy primer or strasser PRIM ESA epoxy-resin protection coat. On a heated screed, the sealing primer may only be carried out with strasser PRIM ESA epoxy-resin protection coat. The primer is to be spread over the whole area with strasser GQS coarse silica sand. ■ Once the protective coat has hardened, the desired surface covering can be prepared on it. 2 to 3 days after completing the surface covering, it must be slowly heated according to the strasser heating protocol. ■ The joints in the covering may only be sealed after the heating in preparation for the covering has finished.
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ When using as a heated screed, the heating pipes must be covered by at least 20 mm up to a maximum of 35 mm. ■ Optimum flow properties are achieved at temperatures > 10°C. At lower temperatures, the flow behaviour is reduced. In this case, do not add any more mixing water.

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QUANTITY REQUIRED / YIELD

- consumption: approx. 18 kg/m² per 10 cm layer thickness
- yield: app. 14 l fresh mortar per 25 kg/sack

TECHNICAL DATA

Grain size	0 – 4 mm
Layer thickness	10 - 50 mm in combination, 35 - 50 mm with floating installation
Behaviour in fire	A1 (non-flammable) in accordance with DIN EN 13501
Compressive strength (class)	C25
Flexural strength (class)	F4
Compressive strength	≥ 25 N/mm²
Flexural strength	≥ 4 N/mm²
Processing time	approx. 30 minutes
Can be walked on after	after approx. 1 day
Can be loaded after	after approx. 1 day

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

PACKAGING

- 25 kg/sack

STORAGE

- Store sacks appropriately and in dry conditions on pallets.
- can be stored in sealed original container/bag for at least 6 months from manufacturing date

SAFETY AND DISPOSAL INSTRUCTIONS

Safety	■ This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes. ■ Follow further instructions in the safety data sheet.
GISCODE	■ ZP1 (products containing cement, low-chromate)
Disposal	■ Dispose of the material in accordance with the official regulations. ■ Completely empty and recycle the packaging. ■ Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concretewaste and concrete slurries).

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GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. Since natural raw materials are used, the values and properties described may vary somewhat. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.