

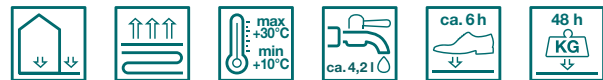


### Flowable levelling compound for functional, heavy-duty surfaces

- extremely low tension due to innovative SAFETEC® technology
- Fully loadable after 48 hours
- For layer thicknesses of 5 - 20 mm
- For layer thicknesses up to 50 mm with correspondingly fast installation
- Optimised for machine processing

CT-C40-F10 acc. EN 13813 / DIN 18560

#### Seal:



## Applications

- for highly resistant wear layers on screeds, concrete substrates and firmly adhering ceramic coverings
- Suitable top layer in the quick mix IB steel system
- Suitable for use on concrete subfloors with concrete core activation/tempering and on heated screeds
- As a mechanically highly resilient levelling compound under ceramic coverings
- For areas with slopes
- for interior and exterior, but not in permanently moist areas

## Properties

- very low emissions EC 1<sup>PLUS</sup> according to GEV-EMICODE
- suitable for pumping
- Can be walked on after approx. 6 hours
- Highly resilient
- Directly usable
- extremely low tension
- Highly resistant
- highly free-flowing
- High temperature resistant
- frost and de-icing salt-resistant
- Slip resistance R10
- mineral
- Fully loadable after 48 hours



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## Composition

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

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## Substrate

### Suitable substrates

- Cement screeds, heated and unheated
- Mastic asphalt (in coordination with strasser application technology)
- Concrete, heated and unheated
- firmly bonding ceramic coverings
- quick-mix IB Steel System as a newly created substrate, consisting of the quick-mix IB-SDF steel wire fibres and the quick-mix IB-HIM high-performance infiltration mortar, already one day after infiltration.

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### Properties/tests

- The substrate must be solid, load-bearing, clean, dry and free from dust, shrinkage, cavities, cracks and separating substances such as wax, oil or grease. Sintered layers, bitumen and worn surfaces (tyre wear) as well as all other non-load-bearing substrates must be prepared by milling, shot-blasting, sandblasting or similar (minimum adhesive tensile strength 1.5 N/mm<sup>2</sup>, minimum compressive strength 25 N/mm<sup>2</sup>).
- The residual moisture of mineral substrates must be  $\leq 4.0$  CM-% at the time of installation.
- Concrete substrates must have reached a minimum age of 6 months at the time of covering.

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### Pretreatment

- Deep break-outs and voids in the substrate must be quickly levelled in advance, e.g. with strasser BASE ZFE-S cement fine screed.
- In areas subject to high mechanical loads, we recommend levelling out break-outs and defects with a reaction resin mortar consisting of the products strasser PRIM EG epoxy resin primer and strasser PLUS GQS coarse quartz sand, in a mixing ratio of 1:8 in weight proportions.
- Cracks in the substrate must be repaired professionally.
- The substrate must be primed pore-sealing with strasser PRIM ESA epoxy protective coating in two coats to regulate the absorption behaviour. The first coat of strasser PRIM ESA epoxy protective coating must be diluted with up to 10% clear water (when used in the quick mix IB steel system with up to 20% clear water) in drinking water quality. The second coat of strasser PRIM ESA epoxy protective coating is to be sprinkled with strasser PLUS GQS Coarse Quartz Sand over the entire surface in excess.
- Expansion, movement, building separation or connection joints already present in the subsurface must be applied in the same arrangement throughout the entire cross-section of the system.
- The strasser PLUS RDS edge insulation strip must be attached to all rising components, such as wall connections, in such a way that it cannot run underneath.

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## Processing

### Temperature

- Do not use or allow to harden in air, material or substrate temperatures of less than +10°C, in the case of expected night time frost or at temperatures of over +30°C, in direct sunlight, extremely heated substrates and/or in strong wind.



## Mixing / Preparation / Processing

- For manual application, pour the required amount of water into a clean container with a volume of at least 30 l and add the material evenly.
- Mix material homogeneously and lump-free with a suitable stirrer (e.g. Collomix with DLX stirrer), allow to mature for approx. 3 minutes and stir again.
- The required amount of water must be adhered to precisely and evenly. Deviations or fluctuations can lead to visual impairments or a reduction in the product properties. Use clean tap water of drinking quality.
- For areas of > 80 m<sup>2</sup> or a dry mortar weight of > 750 kg to be installed, we recommend installation with a continuous mixing pump (e.g. m-tec duo mix 2000). The delivery rate must be min. 40 L/min fresh mortar.
- For further information on the use of mixing and conveying techniques, please refer to our machine guide on our website at [www.strasser-systeme.de](http://www.strasser-systeme.de).
- The flow rate must be determined in order to set the necessary water requirement for machine processing. The material to be tested is to be taken from the hose end of the conveyor system, filled into the flow ring of the strasser flow measure and lifted directly. The flow measure must have a diameter of 28-32 cm. The flow dimension determined at the beginning of the installation work must be kept constant during the entire installation process.
- In a sloping situation (max. 3% slope), the water requirement can be reduced to up to 3.8 l.
- Do not mix with other products and/or other substances.

## Applying

- Apply levelling compound evenly to the prepared substrate and squeegee off to the desired layer thickness using a height-adjustable squeegee.
- The layer thickness must be adapted to the expected load. A minimum layer thickness of 8 mm must be planned for forklift traffic.
- In a sloping situation (max. 3% slope), the layer thickness must be uniformly maintained up to max. 8 mm.

## Processing / Working time

- Approximately 40 minutes
- The stated times apply for a temperature of +20°C and relative humidity of 65%.
- Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.

## Drying / Hardening

- Protect from drying out too quickly as a result of sun, wind or draughts.
- When using on underfloor heating systems, the heating in preparation for covering is to be carried out according to the strasser heating protocol.

## Subsequent coating / Suitability for coating

- To minimise the absorption of liquid media, to protect against staining and to increase resistance to chemical attack, we recommend a sealant suitable for the application, e.g. hahne HADALAN® Topcoat M 12P. The specifications of the respective manufacturer for the application and processing of the sealant must be observed.
- Trial plots as proof of suitability are to be established.

## Cleaning the tools

- Clean all tools and equipment with water immediately after use.



## Notes

- Due to the mineral aggregates and the manual execution, an irregular visual appearance in the surface cannot be excluded.
- 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.
- If a uniform colour design is important, only use dry mortar of the same batch / date of manufacture.
- Different absorption behaviour in the substrate can lead to pores and pinholes in the levelling compound.
- Crackles in the created surface do not constitute a defect.

## Packaging

- 25 kg/sack

## Storage

- Store sacks appropriately and in dry conditions on pallets.
- If stored in its original packaging, the product will keep for at least 12 months from the date of manufacture.

## Consumption

- consumption: approx. 1.6 kg/m<sup>2</sup> per mm layer thickness
- yield: app. 15.5 l fresh mortar per 25 kg/sack

## Technical Data

<b>Product type</b>	CT-C40-F10
<b>Grain</b>	0 – 1 mm
<b>Water requirement</b>	approx. 4.2 l per 25 kg/sack
<b>Fire behaviour</b>	A2 <sub>fl</sub> s1
<b>Compressive strength (after 24 hours)</b>	≥ 20 N/mm <sup>2</sup>
<b>Compressive strength (after 28 days)</b>	≥ 40 N/mm <sup>2</sup>
<b>Flexural strength</b>	≥ 10 N/mm <sup>2</sup>
<b>Slip resistance</b>	R10
<b>Processing time</b>	approx. 40 minutes
<b>Layer thickness</b>	5 – 20 mm im Verbund
<b>Walkability</b>	after approx. 6 hours
<b>Ready for covering with ceramic tiles</b>	after approx. 12 hours
<b>Resilience</b>	after approx. 48 hours

All data are average values determined under laboratory conditions at +20°C and 65% relative humidity according to relevant test standards and application tests. Deviations under practical conditions are possible.



## 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.
- Further instructions in the safety data sheet under [www.strasser-systeme.de](http://www.strasser-systeme.de).

### 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).

## General Information

This information sheet provides only general recommendations. If you have any questions when it comes to the actual application, please consult our responsible Technical Sales Adviser or our Service Hotline tel. +49 541 601-235. 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.