

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

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KNAUF



Floor Systems

F468.de

Product Data Sheet

2021-11



Schnellestrich CT

Quick-setting early coverage ready cementitious screed CT-C30-F5

Product description

Schnellestrich CT is a conventional, fast-setting cementitious screed that is ready to be trafficked after approx. 24 hours as an unheated construction at a layer thickness of 40 mm. It is a factory-mixed dry mortar made of special cement for remodelling and for construction sites with tight deadlines in new construction projects and old buildings. Schnellestrich CT is used in small interior areas and is also suitable for use in wet areas.

Quality properties acc. to EN 13813: CT-C30-F5.

Storage

Store the bags on wooden pallets in a cool and dry environment. Seal damaged and open bags airtight and use first.

Can be stored for up to 9 months in the original unopened packaging.

Quality

In compliance with EN 13813, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

Properties and added value

- Very low emission, EMICODE EC1^{Plus}
For details see www.emicode.com/en
- Can be covered after a short time
- Fast usage availability
- High early strength
- Suitable for areas subject to moisture
- For interiors

Field of application

Schnellestrich CT is applied on small surfaces and conventionally as a:

Bonded screed ≥ 25 mm

Screed on a separating layer ≥ 35 mm

Screed on a thermal insulation layer ≥ 40 mm



Application

Substrate and pretreatment

The substrate should be dimensionally stable, free of cracks, sturdy, free of vibrations, dry and clean (dust-free, free of wax, oil, paint, release agents etc.).

Preparation

Bonded screed

Absorbent substrates such as cementitious screeds and bare concrete must be primed with diluted Estrichgrund screed primer (1 part Estrichgrund screed primer : 1 part water) or Schnellgrund primer (undiluted) and may need to be primed with two coats on highly absorbent substrates.

A suitable special primer coat may be required on non-absorbent substrates (e.g. Spezialhaftgrund bonding primer or FE-Imprägnierung impregnation agent).

Mixing

Mixing by hand

Use clean mixing buckets, mix 1 bag (25 kg) of Schnellestrich CT in approx. 1.8 to 2 l of clear, cold water using an agitator or batch mixer, until a lump-free uniform consistence is achieved.

Mixing by machine

With machine application, common compressed air conveyors are used.

Application

The prepared surfaces may only be so large that they can be completed within the application time.

Note

Protect Schnellestrich CT after application against drying too quickly. It must be covered as soon as it is ready to accept floor coverings. If it is not possible to cover it with this time, seal the Schnellestrich CT with FE-Imprägnierung impregnation agent. If the above mentioned instructions are not observed, deformations may occur (e.g. curling) of the screed. For after-treatment of screed surfaces see the BEB Code of Practice "Hinweise für den Auftraggeber für die Zeit nach der Verlegung von Zementestrichen auf Trenn- und/oder Dämmschichten" (German only)".

Application temperature/climate

The room and substrate temperature should not be below +10 °C. Protect freshly applied screed from direct exposure to sunlight, draughts, frost as well as driving rain. Low temperatures slow the hardening time while high temperatures speed up the hardening process (take temperature of the mixing water into account as well).

Application time

The mixed screed must be applied within approx. 50 minutes (at + 20 °C).

Cleaning

In case of any work stoppages and after work has been completed, immediately clean the mixers, pumps and hoses thoroughly.

Drying

At +20 °C substrate and air temperature as well as 50 % air humidity over the entire drying period. At a layer thickness of 40 mm ready to cover after approx. 1 day (24 hours)

Movement joints

Structural joints must be implemented at the same position and across the full width in the screed. Further joints may be necessary depending on the bay size and floorplan shape.

It has proven effective to provide joints

- in doorways,
- on surfaces exceeding 5 m in length,
- in protruding areas
- and narrow spaces.

Technical data

Designation	Standard	Unit	Schnellestrich CT
Reaction to fire	EN 13501-1	Class	A1
Hard enough for foot traffic after	–	h	approx. 3
Reaction of mortar	–	–	alkaline
Full load possible after	–	d	approx. 7
Ready to cover at residual moisture (check with CM tester) for all coverings	–	CM-%	< 2.5
Ready for floor covering with (20 °C, 65 % relative humidity) ■ Layer thickness of 40 mm	–	d	approx. 1
Strengths after 7 days, at 20 °C ■ Compressive strength, dry ■ Flexural strength, dry	–	N/mm ² N/mm ²	> 30 > 5
Yield from 100 kg dry mortar	–	l Mortar	approx. 54
Density ■ Dry ■ Wet	–	kg/l kg/l	approx. 1.8 approx. 1.9
Bulk density of dry material (bulk)	–	kg/l	approx. 1.8
Application time at 20 °C	–	min	approx. 50

The technical data refers to 20 °C and 50 % relative air humidity. Low temperatures delay setting, higher temperatures speed it up.

Material requirement and efficiency

Layer thickness	Consumption approx. in kg/m ²
Per cm	20

All specifications are approximate values and can deviate depending on the substrate. The exact consumption can only be determined on the individual object.

Product range

Designation	Application	Packaging unit	Material number	EAN
Schnellestrich CT	25 kg	42 bags / pallet	00458173	4003982312280

Sustainability and environment

Short description	Unit	Value
Requirements of the German AgBB-scheme	–	fulfilled
Complies with the requirements of the French emission class	–	A+
Certificates	–	Emicode EC1



Observe safety data sheet!

For safety data sheets and CE marking see

pd.knauf.de



Videos for Knauf systems and products can be found under the following link:

www.youtube.com/knauf



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