

CN 76

Pressure- and water-resistant floor levelling compound

Easily spreadable floor levelling compound for layers of 4 to 50 mm both indoors and outdoors

CHARACTERISTICS

- ▶ for indoor and outdoor use
- ▶ self-levelling
- ▶ highly load-resistant
- ▶ rapid hardening
- ▶ suitable for machine application

SCOPE OF USE

CN 76 is used for levelling substrates before installing tiles or other floor coverings and wood flooring (parquet). As a wearing surface in storerooms, cellars and attics. As a wearing surface in factory halls. As a wearing surface in garages. For indoor and outdoor use.

CN 76 is used for smoothing and levelling:

- cement screeds and calcium sulphate screeds
- ceramic, natural stone and terrazzo tiles
- substrates with epoxy coatings
- heated screeds

SUBSTRATE PREPARATION

The substrates must be clean, crack-free, sound, dry and free of substances that may impair adhesion. In addition, they must comply with the current relevant German ATV standards. In the case of cementitious substrates, mechanically remove any laitance from the surface with suitable machines. With the following applications, it is recommended to apply a CK 740 priming coat:

- on cement screeds and rough concrete floors in industrially used areas
- as a wearing surface in garages
- on ceramic, natural stone and terrazzo tiles
- on substrates with epoxy resin coatings.

Always grind calcium sulphate screeds and vacuum them off. Cracks can be expertly repaired with CK 740 Epoxy Resin. Larger depressions and spalls must be levelled off with CN 83 or CN 91 before applying CN 73.

After the substrates have been properly and expertly prepared, they need to be primed with suitable CERESIT primers. (For detailed instructions on how to use the CERESIT primers CT 17, CT 19, CN 94, CN 99 and CK 740, please refer to the respective technical data sheets.)



APPLICATION

Mix CN 76 with clean, clear water (amount: see Technical Data). Stir with an electric drill and agitator attachment at approx. 600 rpm until the mixture is completely free of lumps. Pour the levelling compound on the floor and spread with a broom, smoothing trowel or squeegee; afterwards use a spiked roller to release entrapped air. If mixed in batches, apply the batches immediately wet-in-wet. CN 76 can be applied with suitable machines. Please follow the machine manufacturer's instructions. If a higher layer thickness is required, mix CN 76 with sand (amount: see Technical Data). When using CN 76 in areas subject to high stresses or industrially used areas, apply a layer of 6 mm minimum thickness. When applying layers of 4–20 mm thickness, it is recommended to use a suitable spiked roller to release any entrapped air and ensure a smooth and level surface. When producing layers between 20 and 50 mm, CN 76 can be mixed with screed sand of grain size 2–8 mm with a suitable grading curve. Mixing ratio: 2 : 1 parts by weight. When producing layers of 10–20 mm thickness, add sand of a grain size 0–2 mm.

In this case, the required amount of gauging water (approx. 4.5 l) must be reduced to account for the moisture content of the sand.

The admixture of screed sand (grain size 0–8 mm) may change the physical properties of the levelling compound. When levelling sloping screeds, use approx. 3.5 l of water for 25 kg of CN 76 to obtain a stiffer consistency.

PLEASE NOTE

CN 76 contains cement and sets off an alkaline reaction with water. Therefore protect eyes and skin.

If contact occurs, rinse thoroughly with plenty of water. In case of contact with the eyes, seek medical advice immediately.

Excess material can be cleaned off with water while still fresh; after hardening only mechanical removal is possible. Use CN 76 only in dry conditions and at temperatures of +5 °C to +30 °C. The optimum working temperature is between +15 °C and +25 °C.

Protect the freshly levelled surface from direct sunshine and draughts.

Do not mix the product with other floor levelling compounds. Please also note the following technical information:

- Safety Data Sheet
- Product group information on GISCODE ZP1 issued by the Bauberufsgenossenschaft (Builders Trade Association)
- Technical Data Sheets of other CERESIT products
- ATV DIN 18 352 "Wall and floor tiling"
- ATV DIN 18 332 "Natural stone work"
- ATV DIN 18 356 "Laying of parquet flooring"
- Information sheet "Assessment and preparation of substrates – Installation of resilient and textile floor coverings, laminates and parquet" by the BEB, Troisdorf
- Information sheets issued by the Fachverband Fliesen und Naturstein (Industry Association of Germany's tile and natural stone installers) in the Zentralverband Deutsches Baugewerbe e. V.

Hazard notes/Safety advices/Dangerous goods classification/waste disposal advices: See Material Safety Data Sheet.

Should you need support or advice, please consult our advisory service for architects and craftsmen.
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Fax: 0211-798-1204

The above information, in particular recommendations for the handling and use of our products, is based on our professional knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our control, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for the intended application method and use. Legal liability cannot be accepted on the basis of the contents of this technical data sheet or any verbal advice given unless there is evidence of wilful intent or gross negligence on our part. This technical data sheet supersedes all previous editions.


Apart from the information given in this technical data sheet, it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable DIN standards.

All data given was obtained at an ambient and material temperature of +23°C and 50 % relative humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

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TECHNICAL DATA

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| Base: | Cement combination with mineral fillers and high-quality additives (low chromate content) GISCODE ZP1 |
| Bulk density: | approx. 1.36 kg/dm ³ |
| Mixing ratio: | approx. 4.5 l water on 25 kg for flowable consistency approx. 3.5 l water on 25 kg for spreadable consistency |
| Working time: | approx. 40 min |
| Working temperature: | +5 °C to +30 °C |
| Ready for foot traffic: | after approx. 3 hrs |
| Can be used as a wearing surface: | after approx. 48 hrs |
| Ready for covering with tiles, slabs and natural stones: | after approx. 72 hrs |
| Ready for coating: | after 24–72 hrs (depending on the layer thickness of the finished surface) |
| Compressive strength EN 196: | after 1 day ≥ 8 N/mm ² after 7 days ≥ 32 N/mm ² after 28 days ≥ 40 N/mm ² |
| Bending tensile strength EN 196: | after 1 day ≥ 2.9 N/mm ² after 7 days ≥ 5.5 N/mm ² after 28 days ≥ 9.5 N/mm ² |
| Suitable for wood flooring: | yes, with CK 740 |
| Required amount: | approx. 1.95 kg/m ² for 1 mm layer thickness |
| Extendable with quartz sand: | From a layer thickness of 25–50 mm, the compound can be extended with quartz sand. |
| Shelf life: | Approx. 12 months if stored in the tightly closed sack in a cool and dry place. Use up opened sacks as quickly as possible. |

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| EN 13813: 2002 CT-C35-F7-A12 | |
| Cementitious screed material for use internally in buildings | |
| Reaction to fire | A2fl-S1 |
| Release of corrosive substances | CT |
| Water permeability | NPD |
| Water vapour permeability | NPD |
| Compressive strength | C35 |
| Flexural strength | F7 |
| Wear resistance | A12 |
| Sound insulation | NPD |
| Sound absorption | NPD |
| Thermal resistance | NPD |
| Chemical resistance | NPD |