

# CN 86

## Rapid screed

**Rapid-hardening cement screed  
for layer thicknesses of 10 to 80 mm**

### CHARACTERISTICS

- ▶ for indoor and outdoor use
- ▶ can be walked on after 3 hours
- ▶ rapid hardening
- ▶ ready for covering after 24 hours
- ▶ pumpable

### SCOPE OF USE

CN 86 is used for producing bonded screeds, screeds installed on a separation layer and floating screeds produced in compliance with DIN EN 13813.

Heated screeds are produced acc. to the ZDB information sheet "Cement-bound heated screeds" (issued by the Central Association of the German Building Trade), or acc. to DIN 4725.

For rapid repairs of cement screeds and concrete floors, steps, landings, ramps, kerbstones etc.

Also suitable for producing hollow mouldings.

For indoor and outdoor use – for both over- and under-ground works.

For layers of 10 to 50 mm without sand admixed.

For layers of 50 to 80 mm admix screed sand (0–8 mm).

### SUBSTRATE PREPARATION

CN 86 adheres to all solid, load-bearing, clean, dry and moist surfaces free of substances which can cause separation. The surface must have a rough, open-pored structure with good key. The edges of areas to be repaired or filled must be chiselled out to a depth of at least 10 mm, preferably at right angles to the surface.

Soiling, sintered layers etc. must be mechanically removed. Slightly pre-wet cement screeds and concrete floors, then apply and brush on an adhesive slurry made of CN 86 plus CC 81 (synthetic resin additive).

To produce the adhesive slurry, mix CC 81 with water at a ratio of 1 : 2.

In the case of screeds on a separation course or



floating screeds, it is necessary to allow for edge and expansion joints and to install perimeter insulating strips or special joint profiles.

### APPLICATION

Add 25 kg of CN 86 to approx. 2 l of clean water and mix with a compulsory-type mixer until completely free of lumps (stiff to plasticized consistency).

To produce layers of 50 to 80 mm, mix CN 86 with screed sand (0–8 mm) at a ratio of 3 : 1 parts by weight (CN 86/sand). To produce composite screeds, apply CN 86 wet-in-wet onto the adhesive slurry.

The screed must be applied, compacted, levelled and rubbed off within the application time.

After start of setting, CN 86 must not be diluted with water or mixed with fresh material.

Do not screed over with fresh material after start of setting; dummy joints must be installed.

Screeds produced with CN 86 can be walked on after approx. 3 hours; ceramic coverings can be laid after approx. 24 hours.

After only 3 days, heated screeds produced with CN 86 can be heated up at a daily rate of 5 °C to their max. operation temperature. Keep this temperature for 3 days without reducing it overnight. Afterwards, the temperature can be reduced by 10 °C every day. Excess mortar can be cleaned off with water while still wet, but once hardened only mechanical removal is possible. Clean the mixer and mortar pumps with water before and after work. Use CN 86 only in dry conditions and at temperatures of +5 °C to +30 °C.

## PLEASE NOTE

Protect the screed against too rapid drying while still fresh.

CN 86 contains cement and reacts with water, producing an alkaline solution. Therefore protect eyes and skin and rinse thoroughly with water if contact occurs. In case of contact with the eyes seek medical advice immediately.

Please refer in particular to DIN 18 353, DIN 18 560, DIN 4109 and DIN 4725 as well as to the various work sheets issued by the ZDB (Central Association of the German Building Trade).

Protect the screed against moisture penetrating from the substrate with suitable products, e.g. bituminous water-proof sheeting or foil-type sealants.

The screed can be additionally coated with a suitable Ceresit product.

Heated screeds produced with CN 86 can be heated up after only 3 days, acc. to the instructions of DIN 4725, part 4. Please refer to the relevant information sheets issued by the ZDB (Central Association of the German Building Trade). Deviations from the above instructions for application can result in lower strengths, shrinkage cracks and warping.

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

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

Base:	Cement combination with mineral fillers and high-quality additives (low chromate content) GISCODE ZP1
Powder density:	approx. 1.80 kg/dm <sup>3</sup>
Mixing ratio:	approx. 2.0 l of water/25 kg
Application time:	approx. 50 minutes
Walk-on time:	3 hours
Ready for covering:	after 24 hours
Compressive strength: (DIN 1164)	after 3 hours ≥ 5 N/mm <sup>2</sup> after 24 hours ≥ 15 N/mm <sup>2</sup> after 28 days ≥ 30 N/mm <sup>2</sup>
Bending tensile strength: (DIN 1164)	after 3 hours ≥ 1 N/mm <sup>2</sup> after 24 hours ≥ 3 N/mm <sup>2</sup> after 28 days ≥ 5 N/mm <sup>2</sup>
Amount required:	approx. 2 kg/m <sup>2</sup> per mm layer thickness
Adhesive slurry:	per m <sup>2</sup> approx. 3.0 kg of CN 86 + approx. 0.2 kg of CC 81 dissolved in 0.4 kg of water
Equalizing moisture:	after 24 hours ≤ 3 wt-%
Shelf life:	Approx. 6 months if stored in a tightly sealed container in cool and dry conditions. Use product in opened containers as soon as possible.
Packaging:	25 kg paper sacks

**Should you need support or advice, please consult our advisory service for architects and craftsmen.**  
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<b>EN 13813: 2002 CT-C30-F5</b>	
<b>Cementitious screed material for use internally in buildings</b>	
Reaction to fire	<b>A1<sub>fl</sub></b>
Release of corrosive substances	<b>CT</b>
Water permeability	<b>NPD</b>
Water vapour permeability	<b>NPD</b>
Compressive strength	<b>C30</b>
Flexural strength	<b>F5</b>
Wear resistance	<b>NPD</b>
Sound insulation	<b>NPD</b>
Sound absorption	<b>NPD</b>
Thermal resistance	<b>NPD</b>
Chemical resistance	<b>NPD</b>