

# CN 83

## Repair mortar

**Rapid-hardening cement mortar  
for repairs of cementitious substrates  
with layer thicknesses of 5 to 30 mm**

### CHARACTERISTICS

- ▶ stiff consistency
- ▶ frost-resistant
- ▶ for indoor and outdoor use
- ▶ can be walked on after 3 hours
- ▶ rapid hardening

### SCOPE OF USE

For rapid repairs on concrete floors and cement screeds.  
For producing sloping screeds.

For reconstruction of steps, landings, ramps, kerbstones etc.

Suitable for indoor and outdoor use – for over- and underground works.

### SUBSTRATE PREPARATION

CN 83 adheres to all solid, load-bearing, clean, dry and damp 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 5 mm, preferably at right angles to the surface.

Slightly pre-wet cement screeds and concrete floors, then apply and brush on an adhesive slurry, made of CN 83 plus CC 81. To produce the adhesive slurry, mix CC 81 with water at a ratio of 1 : 2.

### APPLICATION

Add 25 kg of CN 83 to approx. 3 l of clean water. Stir with a compulsory-type mixer or an electric drill with agitator attachment until the mixture is completely free of lumps. Apply the mortar within 45 minutes onto the adhesive bridge while it is still wet. Rub down the surface.

Excess mortar can be cleaned off with water while still wet, but once hardened only mechanical removal is



possible. Protect the wet mortar from too rapid drying. If necessary, remoisten.

The floor can be walked on after only 3 hours and reaches full load-bearing strength after 1 day.

### PLEASE NOTE

Use CN 83 only in dry conditions and at temperatures of +5 °C to +30 °C.

CN 83 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.

The substrate must be capable of resisting the expected loads. Test its strength and, if necessary, renew the substrate surface.

Please refer in particular to DIN 18 202, DIN 18 353 and DIN 18 560 as well as to the various work sheets

issued by the AGI (German Trade Association of Industrial Builders, Cologne).  
 Levelling mortars in exposed areas, especially where chemicals are used, should be additionally coated with a suitable Ceresit product.  
 Observe the warnings-, safety- and waste disposal advice given in the safety data sheet.

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

<b>CE</b>	
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<b>0767</b>	
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<b>00325</b>	
<b>EN 13813: 2002 GT-C35-F7-A9</b>	
<b>Cementitious screed material for use internally in buildings</b>	
Reaction to fire	<b>A1fl</b>
Release of corrosive substances	<b>CT</b>
Water permeability	<b>NPD</b>
Water vapour permeability	<b>NPD</b>
Compressive strength	<b>C35</b>
Flexural strength	<b>F7</b>
Wear resistance	<b>A9</b>
Sound insulation	<b>NPD</b>
Sound absorption	<b>NPD</b>
Thermal resistance	<b>NPD</b>
Chemical resistance	<b>NPD</b>

## TECHNICAL DATA

Base:	Cement combination with natural mineral substances and high-quality synthetic resin powder (low chromate acc. to TRGS 613) GISCODE ZP1
Powder density:	approx. 1.75 kg/dm <sup>3</sup>
Mixing ratio:	approx. 3.0 l of water for 25 kg
Application time:	approx. 45 minutes
Application temperature:	+5 °C to +30 °C
Walk-on time:	3 hours
Adhesive pull strength:	≥ 1.3 N/mm <sup>2</sup>
Compressive strength EN 196:	after 1 day ≥ 15 N/mm <sup>2</sup> after 3 days ≥ 25 N/mm <sup>2</sup> after 28 days ≥ 35 N/mm <sup>2</sup>
Bending tensile strength EN 196:	after 1 day ≥ 3.3 N/mm <sup>2</sup> after 3 days ≥ 4.0 N/mm <sup>2</sup> after 28 days ≥ 7.5 N/mm <sup>2</sup>
Amount required:	approx. 2.0 kg/m <sup>2</sup> per mm layer thickness
Adhesive slurry:	per m <sup>2</sup> : approx. 3.0 kg of CN 83 plus approx. 0.2 kg of CC 81
Shelf life:	Approx. 12 months if stored in a tightly sealed container in cool and dry conditions. Use product in opened containers as soon as possible.

**Should you need support or advice, please consult our advisory service for architects and craftsmen.**  
**Phone: +49 (0) 211/797 106-07/-55/-59**  
**Fax: 0211-798-1204**

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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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