CN 87

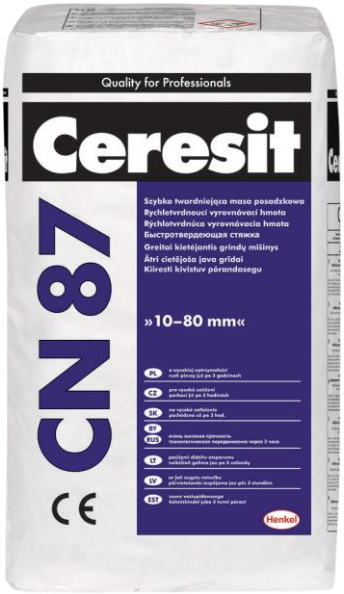
Fast-setting flooring compound

Mortar for fast-setting floor screeds from 10 to 80 mm thick

CERESIT
CN_87_KT_10.2

CHARACTERISTICS

- pedestrian traffic just after 3 hours,
- production of flooring just after 24 hours
- quick drying
- of high strength, resistant
- to water and frost



APPLICATION

The Ceresit CN 87 is used to produce floor underlays:
– bonded to the cement substrate, with a thickness of 10 to 80 mm,
– on a separation layer (e.g. foil, paper), with a thickness of 35 to 80 mm,
– "floating" on the thermal or acoustic insulation layer, with a thickness of 45 to 80 mm. In the case of underfloor heating – increase this minimum thickness of 45 mm by the outer diameter of the heating pipes.

The mortar mixed with water has a thick-plastic consistency that allows falls to be formed.
The underlays and floorings of CN 87 can be made as reinforced or unreinforced.
The CN 87 mortar screed can be used as the final usable layer and can also be used for laying ceramic tiles, parquet, making resin floorings e.g. Ceresit CF 37, coatings of resin paint e.g. Ceresit CF 43, or pouring Ceresit self-levelling or poured mortar floorings. The CN 87 can be used in ecological and energy efficient buildings as well as in passive buildings.

SURFACE PREPARATION

The substrates to which the CN 87 floor underlay will be bonded must be firm, rough, dry and free from substances that reduce adhesion (such as grease, bitumen, dust):
– concrete (not earlier than 3 months after casting, moisture content ≤ 4%),
– cement screed (more than 28 days old, moisture content ≤ 4%). Remove contamination, existing paint coatings, adhesive residues and low-strength layers mechanically, e.g. by shot blasting or milling.

It is recommended to execute screeds on a separation layer in case of moist, oily, otherwise contaminated or low-strength substrates. Level the substrate for this purpose, and chisel off any protruding, sharp fragments. Cover the levelled substrate tightly with foil or tar paper, maintaining a 10 cm overlap.
Lay the insulation boards on the levelled substrate in the case of "floating" underlays. Cover the insulation layer tightly with foil.

PERFORMANCE

Into a measured amount of: 1.75–2.0 l of clean, cool water, pour the contents of the package and mix with a drill mixer until a homogeneous, lump-free mixture is obtained. With a larger scope of work, it is recommended to mix the mortar in a counter-rotating concrete mixer.
Vacuum the substrate and then moisten it with plenty of water without creating puddles.
Apply the contact layer to the moistened substrate, made as follows: dilute 1 part by volume of the Ceresit CC 81 emulsion with 2 parts of clean, cool water. Mix the resulting solution with dry CN 87 dry (0.75 l of solution per 3.5 kg of mortar) using drill mixer. Distribute the contact layer evenly with a brush as the work progresses. In areas that are difficult to reach, it can be applied with a brush generously. Spread the finished mixture on the wet contact layer.

The CN 87 has a thick-plastic consistency and requires thickening. Tamping with a trowel is possible, but for larger areas compact the mortar with a vibrating batten and rotary trowels.

CAUTION

Perform the work in dry conditions, with air and surface temperature from +5°C to +25°C.
CN 87 contains cement and its contact with water causes an alkaline reaction. Protect your skin and eyes. In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice.
Chromium (VI) contents below 2 ppm by the best before date.

RECOMMENDATIONS

If there are expansion joints in the substrate, these must be recreated in the underlay layer. Cut the anti-contraction joints at least every 6 m and at the thresholds of the rooms. The achieved rectangular areas must not exceed for indoor applications 36 m_2. If the flooring will be exposed, e.g. to large temperature fluctuations, strong sunlight, etc., the expansion area should not exceed 25 m_2. Maintain proportions close to a square when taking the length and width of the areas. The ratio of length to width of the area must not exceed 1.5-2.0. When the underlay is exposed to temperature fluctuations, cut it completely with expansion joints at the maximum sizes of expansion joints as above. Perform also perimeter expansion joints around walls, columns, etc. with a width of 0.5 to 1.0 cm.
After min. 24 hours from execution, ceramic tiles can be fixed on the substrate with Ceresit CM mortars. Precede the parquet laying by measuring the moisture content of the underlay. In the case of heated underlays, the heating can be switched on no sooner than 3 days after the underlay is made, increasing the temperature by no more than 5°C per day until the maximum working temperature is achieved, which must be maintained for 3 days. Then the temperature of the underlay can be reduced, but not faster than 10°C per day. At the time of fixing ceramic tiles, the temperature of the underlay must be between +15°C and +18°C.

STORAGE

Up to 9 months from the production date, when stored on pallets, in dry conditions and in the original, undamaged packaging.

PACK SIZE

25 kg bag

TECHNICAL DATA

Base:	ready dry mixture based on hydraulic binders, modifiers and mineral fillers
Mixing proportions:	1.75-2.0 l of water per 25 kg
Pedestrian traffic:	after 3 h
Compressive strength:	C40 acc. to EN 13813
Bending strength:	F7 acc. to PN-EN 13813
Abrasiveness on the Bohm disc	A9 acc. to PN-EN 13813
Reaction to fire:	class $A1_{fl}$ acc. to PN-EN 13813
Release of corrosive substances:	CT acc. to PN-EN 13813
Release of volatile substances:	fulfils requirements, see Safety Data Sheet

Moisture content of the underlay:

No of days	1 cm	3.5 cm	7.0 cm
1	2.50%	3.00%	4.25%
2	2.00%	2.25%	3.00%
3	1.80%	2.00%	2.25%
4	1.70%	1.85%	2.00%

The tests were performed under laboratory conditions. Perform the tests on the moisture content of the underlay each time before applying the flooring materials.

Approximate yield:
–CN 87 mortar: approx. 2.0 kg/m_2 for each mm of thickness
–contact layer: approx. 0.25 l CC 81 + 3,5 kg CN 87 + 0,5 l of water

–Product compliant with the PN-EN 13813:2002 standard.

Any technical advice can be obtained from the telephone numbers:
+48 800 120 241
+48 41 3710124.

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