CN 68

NIVEL

Self - Levelling Compound

Residential traffic – for thicknesses between 2-20 mm

CHARACTERISTICS

- Provides a smooth and even surface
- Shrink-free
- Fibre reinforced
- Crack-free
- It can be applied mechanically
- It can be applied on heated floors
- Only for indoors – dry surfaces

SCOPE OF USE

For levelling and equalising calcium sulphate, magnesite and cast asphalt screeds, fast drying screeds, cement surfaces, as well as for levelling screed layers in old buildings. It shall be applied in layers up to 20 mm thickness, in a single application, in order to obtain a perfectly flat surface, before covering with moquette, laminated floor (floating installation), PVC carpet, linoleum or ceramic tiles. It shall not be applied on plastic or metal substrates.

CERESIT C_CN68_TDS_1_0420

SUBSTRATE PREPARATION

The surfaces must be dry (humidity of maximum 2% CM at a depth of 2-3 cm), clean, not frozen, crack-free and without anti-adherent materials. They must comply with the current applicable standards and regulations. Before applying self-levelling screeds, you must always ensure that, in case of floating floors, the residual humidity of the substrate is < 2 CM % on cement screeds without floor heating (respectively 1.8 CM % with floor heating), and < 0.5 CM % for screeds with calcium sulphate without floor heating (respectively 0.3 CM % with floor heating). In case of adherent screeds and when self-levelling screeds are applied directly on concrete surfaces, the residual humidity must be determined over the cross-section of the screed. If the residual humidity cannot be determined, a sufficient drying time of several months must be observed. Moreover, the composite structures must be protected with a humidity barrier against its migration into the floor structure. The compression strength of the substrate should be minimum 15 N/mm^2. Wax, bitumen, grease or oil spots must be removed. Fissures and cracks must be mechanically enlarged, cleared of dust, and filled with Ceresit R 755. The substrate shall be repaired with Ceresit CX 5 or Ceresit RS 88 rapid mortar. Before applying primers, the substrate must be polished with a single disc having adequate granulation abrasive (16; 24), and vacuumed with an industrial vacuum cleaner. This operation must be performed to remove the loosely adherent layer from the substrate surface.

Concrete slabs: The floors must be polished (roughened) and vacuumed, then they shall be treated with Ceresit CT 17 penetrating primer (in two layers) or Ceresit R 777, diluted (1:1), using a brush or a roller. The screed can be cast when the primer is dry. To make a residual humidity barrier, Ceresit R 755 epoxy primer or Ceresit R 740 polyurethane primer is recommended.

Cement screeds: After polishing (roughening) and vacuuming, the porous, absorbent surfaces must be treated with undiluted Ceresit CT 17 penetrating primer, in two layers. The screed can be cast when the primer is dry. In case of highly porous and absorbent surfaces, it is recommended to repeat the priming. If the non- absorbent substrate is old and contaminated, the substrate shall be scoured and cleaned in advance, and then it shall be primed. The screed can be cast when the primer layer is fully dried (24 hours).

Calcium sulphate screeds: After polishing (roughening) and vacuuming, the porous, absorbent surfaces must be treated with undiluted Ceresit CT 17 penetrating primer. It is recommended to cast the screed 24 hours after priming (this is possible when the primer is fully dried).

Magnesite screeds: After polishing (roughening) and vacuuming, the porous, absorbent surfaces must be treated with undiluted Ceresit R 755 epoxy primer, and then covered while wet with quartz sand having a granulation of 0.3 – 0.7, thus creating the required adherence bridge to apply the self-levelling screed. The screed can be cast when the primer is fully dried.

APPLICATION

Pour the Ceresit CN 68 sack in 5.5 - 6 litres of cold water and stir with a low speed mixer (max. 600 rpm) until a homogenous paste, free of lumps, is obtained. After stirring, leave the material to rest for 2-3 minutes, then stir again and then pour it on the primed surface, preferably in continuous strips 25-30 cm wide. While pouring, the self-levelling screed shall be levelled with a "rake" (steel trowel with fine notches). The excess of self-levelling screed shall be spread in the less accessible spots (e.g. corners) using a notched trowel. To reach a perfectly smooth (pore free) surface, the air shall be removed from the fresh surface by using a spiked roller (immediately after casting). In case of lengths above 10 meters, if there are expansion joints, they should be maintained. Before applying the adhesive to paste subsequent coverings, the screed shall be polished, vacuumed and primed with Ceresit CT 17 or Ceresit R 777 dispersion primer. Ceresit CN 68 can also be applied mechanically.

PLEASE NOTE

The freshly cast layer should not dry too soon. Protect it against direct sun exposure and extreme thermal conditions, frost and dry air. Its setting is accelerated by high temperatures, and delayed by low temperatures. Application shall be performed in dry conditions at temperatures from +5°C to +30°C. The optimal application temperature is between +15 °C and +25 °C, relative humidity under 75%. It is mandatory to comply with and ensure a sufficient drying time.

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards of the German Standards Institute (DIN). The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

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

STORAGE

9 months after the manufacturing date written on the package. Store in its original undamaged packaging, in dry rooms, free of dampness or frost.

PACKAGING

25 kg paper bags.

CE

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Henkel Polska Operations Spółka z o.o.
02-672 Warszawa, ul. Domaniewska 41
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Ceresit CN 68
00214
EN 13813: 2002 CA - C20 - F6
Calcium sulphate self-levelling screed, for indoors application

Reaction to fire:	$A1_{fl}$
Emission of corrosive substances:	CA
Water permeability:	NPD
Water vapour permeability:	NPD
Compression strength:	C20
Bending strength:	F6
Adherence to the substrate:	B 0.5
pH	> 7
Resistance to wear:	NPD
Noise insulation:	NPD
Noise absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

TECHNICAL DATA

Composition:	Mixture of gypsum, cement, aggregates and additives
Colour:	grey
Water quantity:	5.5-6 litres of water for 25 kg of powder
Fresh self-levelling screed density:	c. 1.3 kg/l
Indicative consumption:	c. 1.5 kg/m²/mm of thickness
Application time:	max. 40 minutes from mixing with water
Application temperature:	from +5 °C to +30 °C
Walk-on time:	- after 4 hours for thicknesses <5 mm; - after 12 hours for thicknesses between 5 and 20 mm.
Ready for covering:	- after 24 hours for thicknesses up to 5 mm; - after 48 hours for thicknesses between 5 and 10 mm; - after 7 days for thicknesses between 10 and 20 mm.
Compression strength (SR EN 13892-2):	20 N/mm² after 28 days
Bending strength (SR EN 13892-2):	6 N/mm² after 28 days
Substrate adherence (SR EN 13892-8):	0.5 N/mm²
Class (SR EN 13813):	CA - C 20 - F6 - B 0.5

Henkel CEE
Erdbergstrasse 29
1030 Vienna
www.ceresit.com

Quality for Professionals