



Status 10/2021

## NEODUR Level

**mineral, self-leveling, fast-setting industrial floor (thin screed)  
for wearing layers**

### DESCRIPTION

NEODUR Level is a ready to use, cementitious, mineral, fast-setting, polymer-modified, self-leveling industrial floor (thin screed) with wearing aggregates on the basis of KORODUR hard aggregates for layer thickness from 4 to 30 mm.

### APPLICATION

For the production of direct wearing layers, bonded on mineral concrete sub-bases or cement screeds, as industrial floor for new construction and repair, e.g. in service and store rooms, production halls, underground car parks, sales rooms etc. Indoors and outdoors.

### SUSTAINABLE CONSTRUCTION

The use of NEODUR Level increases the energy and resource efficiency and conserves natural resources. A hard aggregate industrial floor has an outstanding durability. The service life of a hard aggregate industrial floor is many times longer than that of a pure concrete floor or alternative industrial flooring systems. For further information contact KORODUR.

### PROPERTIES

- easy to mix
- highly flowable
- pumpable
- fast-setting
- early walkability
- highly stressable
- almost tension-free

### TECHNICAL DATA

|  |  |
|--|--|
| <b>Quality</b>   | CT-C40-F8-AR0,5  |
| <b>Granulometry</b>  | 0 - 2 mm   |
| <b>Colour</b>  | grey   |
| <b>Compressive strength</b> [N/mm <sup>2</sup> ]<br>after 28 days, measured on defined prisms acc. to DIN EN 13892-2 | C 40   |
| <b>Flexural strength</b> [N/mm <sup>2</sup> ]<br>after 28 days, measured on defined prisms acc. to DIN EN 13892-2    | F 8  |
| <b>Abrasive wear</b><br>determination of wear resistance acc. to BCA acc. to DIN EN 13892-4                          | AR 0,5   |
| <b>Temperature</b>   | sub-base approx. 8 °C - 25 °C<br>air approx. 8 °C - 30 °C  |
| <b>Water addition</b>  | approx. 4,75 l/25 kg bag   |
| <b>Working time</b><br>at +18 °C and 65 % rel. air humidity  | approx. 30 minutes   |
| <b>Layer thickness</b>   | 4 - 30 mm  |
| <b>Stress / use</b><br>*vehicles with pneumatic tires  | ready for foot traffic after approx. 3 hours<br>light stress after approx. 24 hours<br>ready for traffic* after approx. 3 days<br>full stress after approx. 7 days |
| <b>Material consumption</b><br>per m <sup>2</sup> / per mm layer thickness   | approx. 1,7 kg/m <sup>2</sup> /mm  |

### PROCESSING

#### Sub-base

Prepare cementitious sub-base by milling and/or shot peening. Existing cracks, breakouts and damaged joints must be properly repaired. The sub-base must be load-bearing, solid, clean, dry, crack-free and free from loose debris, oils, greases and other contamination impairing the bond.

- Surface bond strength:
- without traffic stress  $\geq 1,0 \text{ N/mm}^2$
  - with traffic stress and/or in outdoor areas  $\geq 1,5 \text{ N/mm}^2$

The demands acc. to DIN 18365 and DIN 18560 apply. Application of KORODUR PC primer on the prepared sub-base. Processing see data sheet KORODUR PC.

## Processing

Mix NEODUR Level in a clean container (e.g. KORODUR 30-Liter measuring bucket) with approx. 4,5 l to 5,0 l water, using a suitable stirrer with minimum 650 rpm or in pan type mixer (e.g. Collomix LevMix or Hippo-Mixer) for approx. 3 - 5 minutes to a lump-free and homogenous mix. For mechanical processing use customary worm pumps (e.g. Duo-Mix 2000 or inoCOMP Cabrio) and continuous mixing pumps (slump acc. to DIN EN 12706 = approx. 130 - 140 mm with cylinder/measuring tube with  $d = 32 \text{ mm}$  and  $h = 51 \text{ mm}$ ). Do not use mixing equipment that entraps big amounts of air. For uniform application of the material, the use of a qualified rake is recommended. To remove air enclosures, treat the still flowable surface with spiked roller. Keep material temperature  $\geq 10 \text{ }^\circ\text{C}$ . Apply mixed NEODUR Level within 30 minutes.

## CURING

Differing temperatures may influence the setting and hardening process. NEODUR Level must be protected from too rapid drying out, air draught, direct exposure to sun and heat acc. to DIN EN 13670 / DIN 1045-3. The air and ground temperature during the application and one week after should be  $\geq 8 \text{ }^\circ\text{C}$ . After drying/walkability we recommend a suitable impregnation or first maintenance treatment. This improves the chemical resistance and has a moisture and dirt repellent effect. Moreover, it optimizes the optical appearance and leads to a dust-free surface.

## JOINTS

Joints in the sub-base have to be taken over in the NEODUR Level wearing layer. The NEODUR Level screed has to be separated from uprising masonry (walls, columns etc.).

## SUPPLY

25 kg special paper packaging

## STORAGE

Dry, like cement. Shelf-life approx. 6 months.

**HINTS:** This product contains cement and has an alkaline reaction with moisture/water. Therefore protect skin and eyes. In case of contact with eyes, consult a doctor. The specifications provided in this data sheet for application and processing are based on tests carried out by KORODUR under ideal conditions in the laboratory and acc. to the relevant technical regulations. Therefore, the indicated data don't represent directions for application or a quality agreement in the meaning of § 434 (1) BGB, no regulation in the meaning of § 434 (2) sentence 2 BGB (German Civil Code) and no guarantee for practical application. Due to the differing conditions on site, preliminary own tests and suitability checks are required before application. Please consider the currently valid product information as well as the relevant safety data sheet acc. to Regulation (EC) No. 1907/2006 in the latest version – also published on the internet: [www.korodur.de](http://www.korodur.de).



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