



NEODUR HE 40



per 03/2021

**mineral dry screed
for topping of concrete areas**

DESCRIPTION

NEODUR HE 40 is a ready to use, cementitious hard aggregate screed on the basis of KORODUR hard aggregates acc. to DIN 1100 (group A) in the qualities

- NEODUR HE 40: layer thickness fresh on fresh up to 15 mm
- NEODUR HE 40: layer thickness as bonded screed up to 35 mm
- NEODUR HE 40/8: layer thickness as bonded screed up to 50 mm

Processing in one layer as bonded screed for heavy-duty stress acc. to DIN 18560-7.

APPLICATION

For the production of heavy-duty industrial floors, e.g. car parks, industrial halls, assembly halls, aircraft hangars, workshops, high-bay warehouses and other industrial areas subjected to most severe stress. Indoors and outdoors.

PROPERTIES

- highly wear resistant also under heaviest stress
- high surface density
- resistant to gasoline, mineral oil, solvents
- forklift resistant
- water-resistant, suitable in wet areas
- anti-skid, non-slip
- frost resistant
- electrostatically non-chargeable
- chloride-free
- physiological and ecological harmless
- pumpable
- consistent quality ensured by quality assurance acc. to DIN EN 13813

TECHNICAL DATA

Quality	NEODUR HE 40 NEODUR HE 40/8	CT-C40-F6-A6 CT-C40-F7-A6
Granulometry	NEODUR HE 40 NEODUR HE 40/8	0 - 5 mm 0 - 8 mm
Colour	all qualities	cement grey
Wear resistance abrasive wear acc. to Böhme acc. to DIN EN 13892-3	all qualities	≤ 5,0 cm ³ /50 cm ²
Compressive strength [N/mm ²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	all qualities	C40
Flexural strength [N/mm ²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	NEODUR HE 40 NEODUR HE 40/8	F6 F7
Temperature processing, ambient and sub-base temperature	all qualities	≥ 5 °C
Water addition all qualities	screed grade C 35 screed grade C 45	approx. 3,5 l/25 kg bag approx. 3,0 l/25 kg bag
Processing time depending on ambient temperature	all qualities	approx. 2 - 3 hours
Layer thickness processing fresh on fresh	NEODUR HE 40	8 - 15 mm

NEODUR HE 40

Processing on set base concrete	NEODUR HE 40 NEODUR HE 40/8	10 - 35 mm up to 70 mm
Material consumption per m ² / per mm layer thickness	all qualities	approx. 2,1 kg

PROCESSING

Fresh on fresh

Sub-base

The base concrete must be produced at least as grade C 25/30 acc. to DIN EN 206 (Attention: No use of air-entrained concrete!). The surface must be produced in level within the tolerance limit acc. to DIN 18202. For intermediate curing of the base concrete we recommend the use of KOROCURE (see data sheet). The fresh, just walkable base concrete is trowelled with disk float.

Processing

NEODUR HE 40 is mixed with the specified quantity of water, depending on the processing method, and mixed for approx. 3 minutes. Application on the fresh, trowelled surface, levelling over gauges (round bar) with aluminium lath or vibrating beam. Timely grinding with disk float to close pores and, depending on the requested surface texture, smoothing (helicopter). Layer thickness 8 - 15 mm.

On existing base concrete

Sub-base

The base concrete (minimum as grade C 25/30, surface bond strength $\geq 1,5 \text{ N/mm}^2$) must be pre-treated, e.g. milling and shot-peening. For full bond, the surface must be free from cracks, level, free from loose and brittle debris and fine mortar slurry, rough and open-pore. The demands acc. to DIN 18365 and DIN 18560 apply. The flatness should be acc. to DIN 18202, table 3, line 3. Thorough pre-wetting of the base concrete 1 day prior to the installation, avoiding formation of puddles. Application of KORODUR HB 5 bonding compound on the matt-damp surface (see data sheet).

Processing

Installation of NEODUR HE 40 analogous to the processing instructions for "fresh on fresh", in a middle layer thickness of 15 mm.

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process. NEODUR HE 40 must be protected from too rapid drying out acc. to DIN EN 13670 / DIN 1045-3. For after-treatment of the NEODUR hard aggregate layer we recommend the use of our products KOROMINERAL CURE or KOROTEX (see data sheets). In case a subsequent surface modification, coating or marking is specified, the after-treatment should be carried out with foil.

JOINTS

The joint grid must be specified by the planner. Joints in the set base concrete have to be taken over in the hard aggregate layer. The hard aggregate screed must be separated from uprising masonry (walls, columns etc.).

SUPPLY

25 kg special paper packaging
big bag
loose in silo (NEODUR HE 40)

STORAGE

Dry, like cement. Shelf-life approx. 12 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.