NEODUR HE 65 metallic

Status 06/2025

metallic dry mortar
for topping of concrete areas for heaviest stress

DESCRIPTION

NEODUR HE 65 metallic is a ready to use cementitious hard aggregate screed with metallic aggregates on the basis of KORODUR hard aggregates acc. to DIN 1100 (group M) on the basis of KORODUR WH-metallic. Processing in one layer as bonded screed for heaviest stress demands 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.
Extremely resistant to impact and percussion stress. Specially qualified for stress by heavy iron wheel traffic, rolling and impact by hard deposit of sharp-edged work pieces etc. Used for the production of so-called armored screeds. Indoors and outdoors.

PROPERTIES

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

TECHNICAL DATA

Quality	CT-C80-F11-A3	
Granulometry	0-4 mm	
Colour	cement grey	
Wear resistance abrasive wear acc. to Böhme acc. to DIN EN 13892-3	≤ 3,0 cm³/50 cm²	
Compressive strength [N/mm²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	C80	
Flexural strength [N/mm²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	F11	
Temperature processing, ambient and sub-base temperature	≥ 5 °C	
Water addition	approx. 4,40 l/40 kg bag	
Material consumption per m² / per mm layer thickness	approx. 2,6 kg	
Frost / de-icer resistance At a layer thickness of ≥ 10 mm, hard aggregate screeds are classified as frost / de-icer resistant acc. to the CDF-test method (see example NEODUR HE 65).	☑	
Layer thickness acc. to stress groups acc. to DIN 18560-7, Tab. 1	**group M** I (heavy) II (medium)	**nominal thickness** 8 mm 6 mm

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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 65 metallic 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).

On existing base concrete

Sub-base

The base concrete (minimum grade C 25/30, surface bond strength ≥ 1,5 N/mm²) 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 65 metallic analogous to the processing instructions for “fresh on fresh”, in layer thickness of minimum ≥ 10 mm.

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process. NEODUR HE 65 metallic 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

STORAGE

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

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