



NEODUR HE 65



per 04/2021

mineral hard aggregate screed for topping of concrete areas for heavy-duty stress

DESCRIPTION

NEODUR HE 65 is a ready to use cementitious hard aggregate screed on the basis of KORODUR hard aggregates acc. to DIN 1100 (groups A and KS) in the following qualities

- NEODUR HE 65: on the basis of KORODUR VS 0/5
- NEODUR HE 65 SVS 3: on the basis of KORODUR WH-Special
- NEODUR HE 65 SVS 1,5: on the basis of KORODUR Diamond Concrete

Processing in one layer as bonded screed for heaviest stress demands acc. to DIN 18560-7. Also available in colour, see KORODUR colour chart.

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 and de-icer 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 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	CT-C70-F9-A6 CT-C70-F9-A3 CT-C70-F9-A1,5
Wear resistance	all qualities	0 - 5 mm
Colour	all qualities	cement grey
Wear resistance abrasive wear acc. to Böhme acc. to DIN EN 13892-3	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	≤ 5,0 cm ³ /50 cm ² ≤ 3,0 cm ³ /50 cm ² ≤ 1,5 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	C70
Flexural strength [N/mm ²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2	all qualities	F9
Temperature processing, ambient and sub-base temperature	all qualities	≥ 5 °C
Water addition	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	approx. 2,75 l/25 kg bag approx. 3,30 l/30 kg bag approx. 3,30 l/30 kg bag
Material consumption per m ² / per mm layer thickness	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	approx. 2,1 kg approx. 2,1 kg approx. 2,2 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.	all qualities	<input checked="" type="checkbox"/>

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Penetration behavior acc. to DAfStB-guideline for „concrete construction in context with water endangering substances“. At a layer thickness of ≥ 10 mm, hard aggregate screeds are classified as tight acc. to DAfStB-guideline.	all qualities	☑	
Layer thickness acc. to stress groups acc. to DIN 18560-7	NEODUR HE 65 NEODUR HE 65 SVS 3	group A I (heavy) II (medium) III (light)	nominal thickness 15 mm 10 mm 8 mm
	NEODUR HE 65 SVS 1,5	group KS I (heavy) II (medium) III (light)	nominal thickness 6 mm 5 mm 4 mm

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 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 $\geq 1,5$ 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 particles 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 analogous to the processing instructions for "fresh on fresh", in a middle layer thickness of 15 mm (see data sheet KORODUR-KOROTAN).

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process. NEODUR HE 65 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 (NEODUR HE 65)
 30 kg special paper packaging (NEODUR HE 65 SVS 3 and NEODUR HE 65 SVS 1,5)
 loose in silo and in big bags

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.