



INDUSTRIAL FLOOR

NEODUR HE 65

mineral hard aggregate screed CT-C70-F9-A5
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:

- NEODUR HE 65: based on hardener KORODUR VS 0/5
- NEODUR HE 65 SVS 3: based on hardener KORODUR WH-Special
- NEODUR HE 65 SVS 1,5: based on hardener KORODUR Diamond Concrete

All three qualities are processed as composite screed in one layer for heaviest stress demands acc. to DIN 18560, part 7. Also available in colours, see KORODUR colour chart.

APPLICATION

For the production of heavy duty industrial floors, e.g. in production halls, workshops, high-bay-stores and other industrial areas exposed to heaviest stress.

PROPERTIES

- resistant against gasoline, mineral oil, solvents
- highly wear resistant, even under the most severe stress
- forklift resistant
- waterproof, qualified for wet rooms
- anti-skid/non-slip
- frost and de-icer resistant
- electrostatically non chargeable
- chloride-free
- physiologically harmless
- high surface density
- uniform quality due to quality assurance acc. to EN 13813

PROCESSING

„fresh on fresh“

The base concrete must be produced at least as C 25/30 acc. to EN 206 (Attention: no use of air entrained concrete!). The surface must be produced in level within the tolerance limit acc. to DIN 18202. The fresh, just walkable base concrete is trowelled with disk float. NEODUR HE 65 is mixed with water in pan type mixer (water/solid ratio = 0,10 - 0,12) and, depending on the processing method, mixed for approx. 3 minutes. NEODUR HE 65 is applied on the fresh area and levelled over gauges (round bar) with aluminium lath or vibrating beam. Then follows grinding with disk float to close pores and, depending on the requested surface texture, smoothing (helicopter).

„on existing base concrete“

The base concrete $DF \geq 30 \text{ N/mm}^2$, bond strength $\geq 1,5 \text{ N/mm}^2$ must be pre-treated by milling, shot peening etc. For nonpositive composite the surface must be free from cracks, even, free from loose and brittle particles and cement laitance, rough and open-pore. The evenness should be acc. to DIN 18202, table 3, line 3. Pre-wetting of the prepared base concrete 1 day prior to the installation, avoiding formation of puddles. Application of KORODUR Bonding Compound HB 5 on the matt-damp surface, see data sheet. Installation of NEODUR HE 65 analogous to the processing instructions for "fresh-on-fresh" (layer thickness in middle 15 mm), whereby in this case the installation can be carried out almost joint-free (see data sheet KORODUR-KOROTAN).

JOINTS

All joints in the sub-base have to be taken over in the hard aggregate layer. The hard aggregate layer has to be separated from uprising masonry (walls, columns etc.).

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening procedure. The NEODUR hard aggregate screed must be protected from too rapid drying out acc. to DIN 13670. For intermediate curing of the base concrete the product KOROCURE; for after-treatment of the NEODUR screed the products KOROTEX or KOROSEAL are recommended (see data sheets).

PRODUCTION/CONTROL

KORODUR WESTPHAL HARTBETON GMBH & Co. KG, works Wattenscheid. Quality control acc. to EN 13813
Certification: DIN EN ISO 9001:2008

PACKAGING/SUPPLY

25 kg special paper packaging, loose in silo

STORAGE

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

HINTS

This product contains cement and has an alkaline reaction with moisture/water. Therefore protect hands and eyes. In case of contact with eyes consult a doctor. Our recommendations for application technique are based on our experiences. It is recommended to adapt processing and material quantities to the given local conditions and we refer in this context to our general terms of sales and delivery.



TECHNICAL DATA

Qualification test acc. to DIN 18560	Product	Results
Quality	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	CT-C70-F9-A5 CT-C70-F9-A3 CT-C70-F9-A1,5
Granulometry	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	0-5 mm
Wear	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/mm²] after 28 days, measured at defined prisms acc. to EN 13892-1	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	C 70
Tensile strength [N/mm²] after 28 days, measured at defined prisms acc. to EN 13892-1	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	F 9
Material consumption per m ² / per mm layer thickness	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	ca. 2,1 kg ca. 2,1 kg ca. 2,2 kg
Consumption acc. to stress group acc. to DIN 18560, part 7, table 1	group A: I (heavy) II (medium) III (light) Nom. thickn. 15 mm 10 mm 8 mm	Product NEODUR HE 65 NEODUR HE 65 SVS 3 Consumption 32 kg/m ² 21 kg/m ² 17 kg/m ²
Consumption acc. to stress group acc. to DIN 18560, part 7, table 1	group KS: I (heavy) II (medium) III (light) Nom. thickn. 6 mm 5 mm 4 mm	Product NEODUR HE 65 SVS 1,5 Consumption 13 kg/m ² 11 kg/m ² 9 kg/m ²
Penetration behavior of water endangering substances The penetration depth is determined 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 the DAfStB-guideline.	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Frost- and deicer resistance At a layer thickness of ≥ 10 mm hard aggregate screeds are classified as frost / deicer resistant acc. to the CDF-test method..	NEODUR HE 65 NEODUR HE 65 SVS 3 NEODUR HE 65 SVS 1,5	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

RECOMMENDATION

KOROCURE for intermediate curing, KOROTEX resp. KOROSEAL for the after-treatment.
KOROPOX resp. KOROMINERAL for impregnation.

SOME REFERENCES



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