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NEODUR HE 65 Plus

**synthetic-modified, fiber-reinforced hard aggregate screed
for topping of concrete areas for heavy-duty stress**

DESCRIPTION

NEODUR HE 65 Plus is a ready to use, cementitious, synthetic-modified hard aggregate screed on the basis of KORODUR hard aggregates acc. to DIN 1100 (group A) in the qualities

- NEODUR HE 65 Plus: on the basis of KORODUR VS 0/5
- NEODUR HE 65 Plus SVS 3: on the basis of KORODUR WH-Special

Installation in one layer as bonded screed for highest stress demands acc. to DIN 18560-7 on set base concrete without additional bonding compound. The bonding compound is produced from the same material, i.e. the NEODUR HE 65 Plus is applied in slurry consistency.

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

- without additional bonding compound
- fiber-reinforced
- 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 Plus NEODUR HE 65 Plus SVS 3	CT-C70-F9-A6 CT-C70-F9-A3
Granulometry	all qualities	0 - 4 mm
Colour	all qualities	cement grey
Wear resistance abrasive wear acc. to Böhme acc. to DIN EN 13892-3	NEODUR HE 65 Plus NEODUR HE 65 Plus SVS 3	≤ 5,0 cm ³ /50 cm ² ≤ 3,0 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	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 Plus NEODUR HE 65 Plus SVS 3	approx. 2,75 l/25 kg bag approx. 3,30 l/30 kg bag
Processing time depending on ambient temperature	all qualities	approx. 2 - 3 hours
Layer thickness	all qualities	15 - 30 mm
Material consumption per m ² / per mm layer thickness	NEODUR HE 65 Plus NEODUR HE 65 Plus SVS 3	approx. 2,1 kg approx. 2,2 kg

NEODUR HE 65 Plus

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).	all qualities	<input checked="" type="checkbox"/>
Penetration behavior (Chloridmigration) 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 (see example NEODUR HE 65).	all qualities	<input checked="" type="checkbox"/>

PROCESSING

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 excellent 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. Apply NEODUR HE 65 Plus on the matt-damp surface as bonding compound, water-diluted in slurry consistency, using hard street broom.

Processing

NEODUR HE 65 Plus 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).

AFTER-TREATMENT

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

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.