NEODUR HE 3 metallic

Status 01/2021

mineral dry mortar for cementitious industrial floors in dry-shake method to improve surface hardness and increase wear resistance

DESCRIPTION

NEODUR HE 3 metallic is a ready to use cementitious dry mortar for the production of industrial floors in dry-shake method acc. to DIN EN 13813 on the basis of KORODUR hard aggregates acc. to DIN 1100 group M (KORODUR WH-metallic).
Also available in colour, see KORODUR colour chart.

APPLICATION

For the production of industrial floors to improve the surface hardness and to increase the wear resistance of the floors being subjected to direct industrial stress. Specially qualified for areas with metallic stress, e.g. by iron wheel traffic, rolling, plant traffic with steel or polyamide tires. Indoors and outdoors.

PROPERTIES

- wear resistant also under heaviest stress
- forklift resistant
- water-resistant, suitable in wet areas
- anti-skid, non-slip
- 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] acc. to DIN EN 13892-2, measured on defined prisms	C80
Flexural strength [N/mm²] acc. to DIN EN 13892-2, measured on defined prisms	F11
Temperature processing, ambient and sub-base temperature	≥ 5 °C
Material consumption per m²	approx. 6 - 8 kg

PROCESSING

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

Apply NEODUR HE 3 metallic dry and uniformly (e.g. by means of spreader). After moisture penetration of the applied NEODUR HE 3 metallic, treat the surface with disk float. A further analogous application can be carried out as long as the dry mortar still moistens, followed by timely grinding with disk float to close pores and, depending on the requested surface texture, smoothing (helicopter).

On steel fiber concrete base, NEODUR HE 3 metallic can be mechanically applied directly in the freshly installed base concrete using a spreader. Next working steps on compaction and smoothing as afore described.

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AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process. NEODUR HE 3 metallic must be protected from too rapid drying out acc. to DIN EN 13670 / DIN 1045-3. For after-treatment of the NEODUR dry-shake 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.

SUPPLY

40 kg special paper packaging

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.

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