



KORODUR Diamond Concrete



per 03/2021

top grade hard aggregate for KORODUR industrial floors

DESCRIPTION

KORODUR Diamond Concrete is a hard aggregate acc. to DIN 1100 (coating group KS) for the production of cementitious hard aggregate screeds acc. to DIN 18560-7 and DIN EN 13813 as well as for the production of industrial floors in dry-shake procedure acc. to DIN 18560-3.

KORODUR Diamond Concrete is mixed with cement and optionally with the additive KOROTAN (see data sheet).

APPLICATION

For the production of heavy-duty industrial floors, e.g. car parks, industrial halls, assembly halls, aircraft hangars, workshops, high-bay warehouses, other industrial areas subjected to most severe stress and other industrial areas with highest possible wear resistance. Indoors and outdoors.

PROPERTY

- highly wear resistant also under heaviest stress
- highest possible wear resistance
- 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
- consistent quality ensured by quality assurance acc. to DIN 1100

TECHNICAL DATA

Test values measured on defined specimen as ready mixed hard aggregate screed with binding agent acc. to DIN 18560-7 resp. EN 13813

| | | | |
|---|---|--|--|
| Quality | CT-C70-F10-A1,5 | | |
| Coating group acc. to DIN 1100 | KS | | |
| Wear resistance abrasive wear acc. to Böhme acc. to DIN EN 13892-3 | ≤ 1,5 cm ³ /50 cm ² | | |
| Compressive strength [N/mm²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2 | C70 | | |
| Flexural strength [N/mm²] after 28 days, measured on defined prisms acc. to DIN EN 13892-2 | F10 | | |
| Temperature processing, ambient and sub-base temperature | ≥ 5 °C | | |
| Hard aggregate consumption layer mixing ratio in weight units 1 weight unit cement (CEM I 42,5 R) : 2 weight units KORODUR Diamond Concrete | group KS I (heavy) II (medium) III (light) | nominal thickness 6 mm 5 mm 4 mm | mixing ratio 1:2 approx. 9,5 kg/m ² approx. 8,0 kg/m ² approx. 6,5 kg/m ² |
| Material consumption dry-shake mixing ratio in weight units 1 weight unit cement (CEM I 42,5 R) : 2 weight units KORODUR Diamond Concrete | dry mix KORODUR Diamond Concrete cement (CEM I 42,5 R) | | consumption approx. 3,0 kg/m ² approx. 1,5 kg/m ² |

According to quality assurance, KORODUR Diamond Concrete meets all requirements.

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PROCESSING

Layer

When processing as hard aggregate screed acc. to DIN 18560-7, KORODUR Diamond Concrete is mixed in the above mixing ratio with cement, if specified, additives and water in pan type mixer for approx. 3 minutes, depending on the processing method. For further processing, please refer to the relevant sections on sub-base, processing, after-treatment, joints as per the data sheet NEODUR HE 65.

Dry-shake

When processing in dry-shake method acc. to DIN 18560-3/4, KORODUR Diamond Concrete is dry mixed in the above mixing ratio. For further processing please refer to the relevant sections on sub-base, processing, after-treatment, joints as per the data sheet for NEODUR HE 3.

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process.

The KORODUR hard aggregate layer must be protected from too rapid drying out acc. to DIN EN 13670 / DIN 1045-3. For after-treatment of the KORODUR 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

30 kg special paper packaging

STORAGE

in dry condition

HINTS 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.