



KORODUR DIAMOND CONCRETE

for KORODUR Hard Aggregate Industrial Floors

DESCRIPTION

KORODUR Diamond Concrete - hard aggregate acc. to DIN 1100 – KS 0/4. KORODUR Diamond Concrete - hard aggregate produced from electro-corundum and silicon carbide. Highest grade aggregates for surfaces subject to the most severe stress together with optimum anti-skid property and the highest wear resistance.

Certification: DIN EN ISO 9001:2000

APPLICATION

For use in hard aggregate concrete screeds acc. to DIN 18 560 – ZE 65 KS-F.

Specially suitable in areas where an extremely high degree of skid and wear resistance is required, specially when subjected to sliding stress.

PROPERTIES

- resistant to gasoline, mineral oil, solvents
- highly wear resistant even under the most severe stress
- fork lift-truck resistant
- water-resistant, qualified for wet rooms
- anti-skid, non-slip in wet rooms
- frost and de-icer resistant
- non-rusting
- electrostatic non-chargeable
- high surface density
- physiological and ecological harmless
- easy to clean



HARD AGGREGATE COATING GROUP KS DIN 1100

	standard resp. characteristic values of the hard aggregate acc. to DIN 1100	standard values acc. to DIN 18560-7 resp. EN 13813
	coating group KS	e. g. hard aggregate screed DIN 18560-CT-C 70-F 10-A 1,5-DIN 1100-KS
tensile strength [N/mm ²]	10**	10*
compressive strength [N/mm ²]	80**	70*
wear*** [cm ³ /50 cm ²]	≤ 1,5*	1,5*
bulk density* [kg/dm ³]	acc. to DIN 1100	
granulometric composition*	acc. to DIN 1100	

* standard values ** characteristic values *** average value
 KORODUR Diamond Concrete meets all demands according to quality control.

GROUPS OF MECHANICAL STRESS DIN 18 560, Part 7, Table 1

Stress group	Stress caused by	
	mobile industrial handling equipment, kind of tires 1)	operational processes and pedestrian traffic
I (heavy)	steel and polyamide	processing, sliding and rolling of metal parts, placing down of goods by means of metal forks, pedestrian traffic of more than 1.000 persons/day
II (medium)	urethane-elastomer and rubber	sliding and rolling of wood, paper rolls and plastic castings, pedestrian traffic of 100 to 1.000 persons/day
III (light)	solid tires and pneumatic tires	assembly areas (on tables), pedestrian traffic up to 100 persons/day

1) refers only to clean tires. Pressed in grit and dirt on tires increase the stress.

Remarks:

Where loading and abrasion potential is beyond the guidelines for „Stress group I“, e.g. assembly of heaviest equipment or traffic of heaviest vehicles (crawlers) special precautionary measures must be taken.

PROCESSING / CONSUMPTION KORODUR DIAMOND CONCRETE

Stress group acc. to DIN 18560, Part 7, Table 1	Topping thicknesses acc. to DIN 18560, Part 7, nominal thicknesses	Mixing ratio: indoor surfaces 1 weight unit cement: 2 weight units KORODUR Diamond Concrete
I (heavy)	6 mm	9,5 kg/m ² Korodur Diamond Concrete
II (medium)	5 mm	8 kg/m ² Korodur Diamond Concrete
III (light)	4 mm	6,5 kg/m ² Korodur Diamond Concrete

We recommend:

KOROTEX for after-treatment, KOROPOX for impregnation.

Further literature, test certificates, processing hints, tender texts for the different KORODUR industrial flooring systems, KORODUR floor hardeners, KORODUR special products and building chemical additives are available on request.

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