



KORODUR-KOROTAN INDUSTRIAL FLOOR

Hard aggregate screed acc. to
DIN 18560 / DIN EN 13813

**FOR HIGHEST MECHANICAL AND DYNAMIC STRESS,
IN ONE LAYER, NEARLY WITHOUT JOINTS**

DESCRIPTION

The **KORODUR-KOROTAN** industrial floor is applied in one layer as hard aggregate screed acc. to DIN 18560 (see mixing example on back) on to hardened base concrete (min. C25/30). The **KORODUR-KOROTAN** hard aggregate screed consists of **KORODUR** hard aggregates acc. to DIN 1100, cement and the additive **KOROTAN**. The additive **KOROTAN** is a high-grade screed plasticizer with additional stabilizing properties, see technical data sheet **KOROTAN**. The installation takes place nearly without joints. Existing joints in the sub-base have to taken over. The incorporation of the bonding compound **KORODUR HB 5** provides excellent bond (see technical data sheet).

PROPERTIES

- highly wear-resistant
- resistant to shock and impact
- fork-lift resistant
- non-slip
- high surface density
- resistance against mineral oil
- nearly without joints
- water-resistant
- frost and de-icer resistant
- easy to clean
- harmless to drinking water
- physiologically harmless

PROCESSING

Sub-base:

The base concrete, min. grade C 25/30 must be pre-treated by milling, shot-peening etc. For permabond compound the surface must be free from cracks, even, free from loose and brittle particles and enrichments of finest mortar, rough and open-pore. The evenness should be acc. to DIN 18202, table 3, line 3. The surface bond strength has to be minimum 1,5 N/mm².

The base concrete is to be wetted 1 day prior to the installation, avoiding formation of puddles. On the matt-damp surface the **KORODUR Bonding Compound HB 5** is applied, see technical data sheet.

Mixing:

The **KORODUR-KOROTAN** hard aggregate screed is mixed in pan-type mixer with water until an applicable, plastic consistency is achieved – mixing time approx. 3 minutes – and installed. The **KORODUR-KOROTAN** hard aggregate screed is levelled over gauges (iron rod) with aluminium lath or vibrator beam and intensively smoothed on time.

After-Treatment:

The hard aggregate screed must be protected from too rapid drying out acc. to DIN 1045-3. Differing temperatures may influence the setting and hardening procedure. We recommend after-treatment/sealing with **KOROTEX/KOROSEAL**, see technical data sheets.

MIXING RATIO

3 weight units	KORODUR 0/4 resp. KORODUR VS 0/5 resp. KORODUR WH-Special
1 weight unit	cement CEM 142,5 R
0,02 weight units	KOROTAN additive (maximum 2 % referred to cement weight)

Add water until a stiff-plastic consistency is achieved.

PACKAGING / SUPPLY

see relevant technical data sheet

STORAGE

see relevant technical data sheet

PRODUCTION

KORODUR Westphal Hartbeton GmbH & Co. KG, works Wattenscheid
Certification: DIN EN ISO 9001:2008

HINTS

Our recommendations for application techniques 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 sale and delivery. Further literature, processing hints, tender texts on the different **KORODUR** industrial flooring systems, **KORODUR** floor hardeners, **KORODUR** special products are available on request.



TECHNICAL DATA

	standard resp. characteristic values of the hard aggregate acc. to DIN 1100	standard values acc. to DIN 18560-7 resp. EN 13813
	coating group A	e.g. hard aggregate screed DIN 18560-CT-C 60-F 9-A 5- DIN 1100-A
tensile strength [N/mm ²]	10**	9*
compressive strength [N/mm ²]	80**	60*
wear*** [cm ³ /50cm ²]	5*	5*
bulk density* [kg/dm ³]	acc. to DIN 1100	
granulometric composition*	acc. to DIN 1100	

* standard values ** characteristic values *** average value

KORODUR-KOROTAN meets all demands according to quality control.
Hint: Demanded surface bond strength 1,5 N/mm².

MATERIAL CONSUMPTION PER m² KORODUR-KOROTAN HARD AGGREGATE SCREED Exemplary mixing calculation

hard aggregate screed DIN 18560-CT-C 60 F 9 A 5 DIN 1100 A-V 15	layer thickness (nominal thickness) 15 mm			
	KORODUR 0/4 hard aggregate	KORODUR VS 0/5 hard aggregate	KORODUR WH-Special hard aggregate	NEODUR HE 65 hard aggregate screed
	kg/m ²	kg/m ²	kg/m ²	kg/m ²
KORODUR HB 5 bonding compound	2	2	2	2
KORODUR hard aggregate	24	24	24	32
CEM 142,5R cement	8	8	8	already contained in the product
KOROTAN additive	0,16	0,16	0,16	already contained in the product
KOROTEX resp. KOROSEAL after-treatment agent	0,15	0,15	0,15	0,15

Hint: Qualification test acc. to DIN 18560-7 resp. DIN EN 13813 required



per April 2010



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