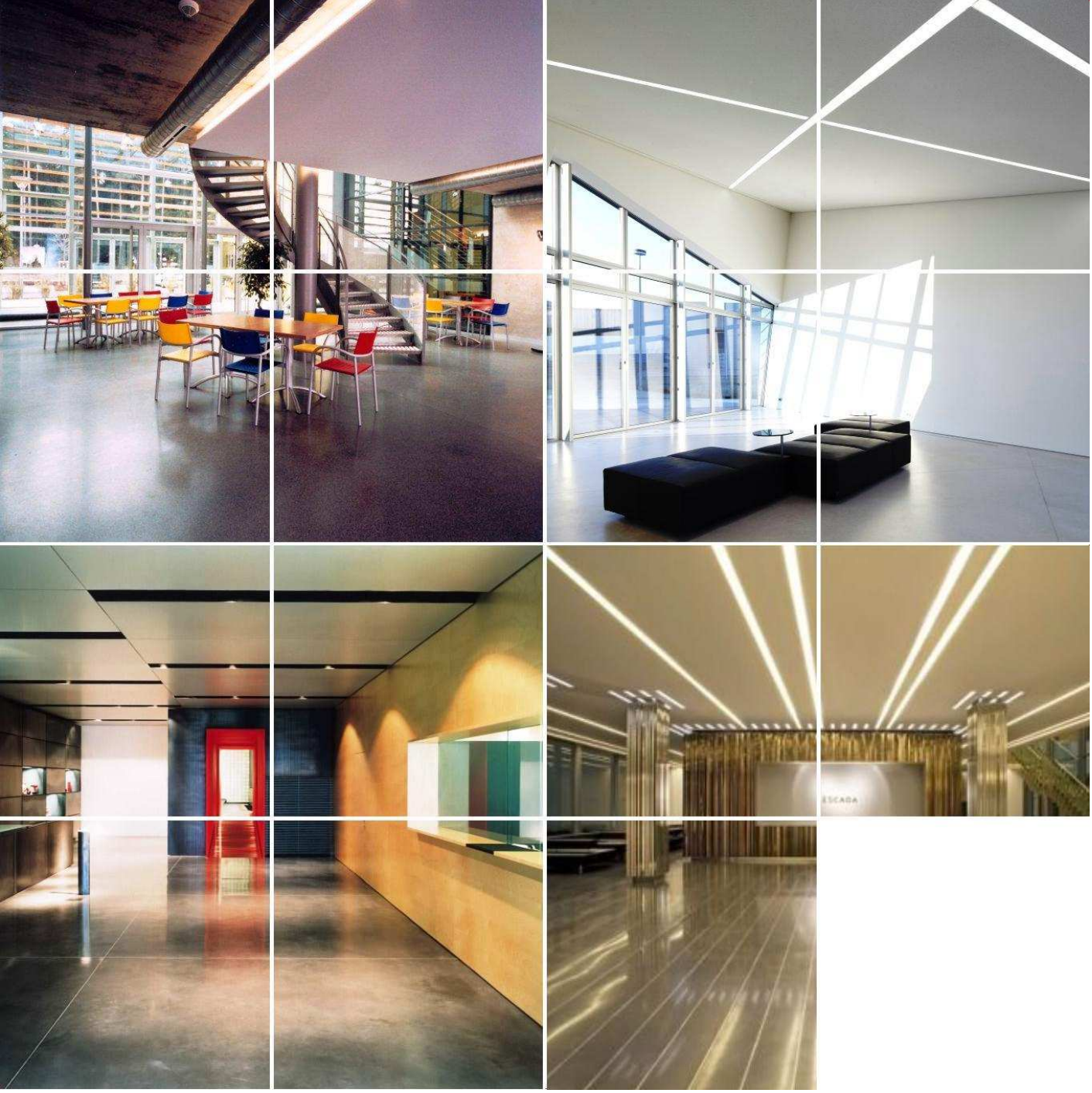


KORODUR Decorative Screed

original. sustainable. unique.

Content

OVERVIEW KORODUR DECORATIVE SCREEDS

KORODUR DECORATIVE SCREEDS	KORODUR COPETTI FLOOR smoothed decorative screed in marble optics		GRANIDUR polished decorative screed in granite optics					TRU self-leveling, polished
PRODUCT	KCF 05	KCF 08	GRANIDUR 03	GRANIDUR 05	GRANIDUR 08	GRANIDUR BIANCO	GRANIDUR NERO	TRU Self-Leveling TRU PC, TRU
QUALITY	CT - C45 - F6 - A5	CT - C35 - F5 - A5	CT - C45 - F6	CT - C45 - F6	CT - C35 - F5	CT - C45 - F6	CT - C45 - F6	CT - C40-F10
GRAIN SIZE	0-5 mm	0-8 mm	0-3 mm	0-5 mm	0-8 mm	0-5 mm	0-5 mm	0-1 mm
INSTALLATION METHOD / CONSUMPTION	LAYER THICKNESS							
in composite, on concrete[1]	15 - 25 mm	25 - 50 mm	15 mm	15 - 25 mm	25 - 50 mm	15 mm	15 mm	4/10 - 35 mm
on separation / insulation layer		35/45 - 70 mm			35/45 - 70 mm			
consumption kg/m²/mm	approx. 2,1 kg	approx. 2,1 kg	approx. 2,1 kg	approx. 2,1 kg	approx. 2,1 kg	approx. 2,1 kg	approx. 2,1 kg	approx. 1,7 kg
COLORS								
white						● [2]		TRU Self-Leveling and TRU PC individual designs can be created on site by adding color pigments or sprinkling of decorative aggregates, see data sheets.
concrete- /cement- / light-gray	●	●	●	●	●			
anthracite	●	●	●	●	●		● [3]	
basalt-gray	●	●	●	●	●			
red, beige	●	●	●	●	●			
olive	●	●	●	●	●			
PRIMER								
KORODUR bond. comp. HB 5	●	●	●	●	●	●	●	
KORODUR TXPK EP primer								●
Quartz sand 0,4 - 0,8 mm								●

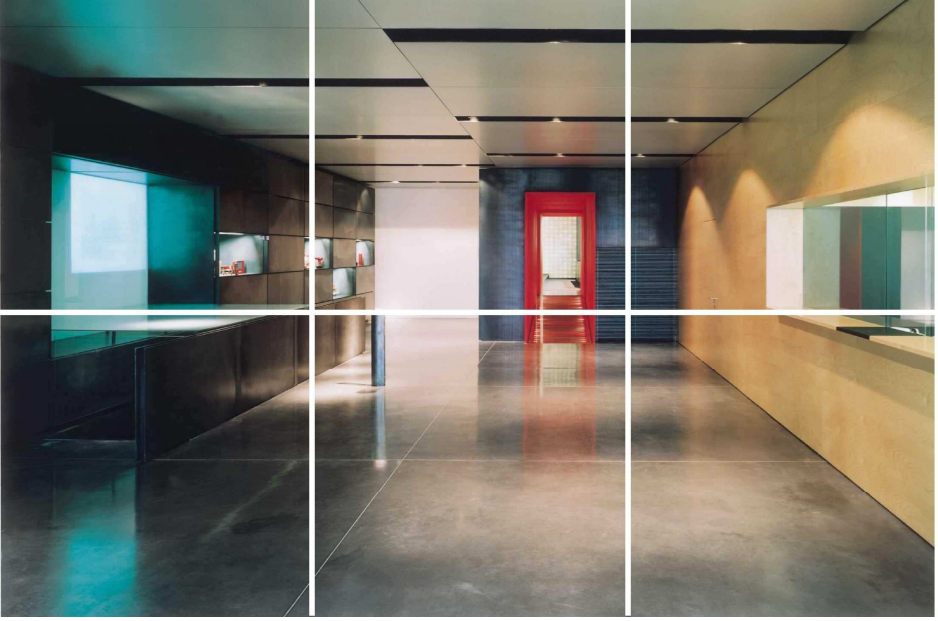
[1] Sub-base - compressive strength ≥ 30 N/mm², bond strength ≥ 1,5 N/mm² [2] with mostly light aggregate [3] with mostly dark aggregate

First maintenance: To ensure a durable quality and attractive optical appearance, the total area, after adequate drying and setting (min. 21 days), must be cleaned pore-deep and maintenance treated. Different products are available on request. See data sheets.

Routine cleaning: To avoid negative affects to the surface and depending on the stress a routine cleaning in regular intervals and adapted to the first maintenance treatment is recommended.

Hints: For technical details and processing please refer to the relevant data sheet. These reommendations don't refer to industrial use.

per July 2017



DESIGN FLOOR

KORODUR COPETTI FLOOR - KCF®

KORODUR design floor in marble, smoothed optics

DESCRIPTION

KCF 05 and **KCF 08** - factory produced, ready to use, colored dry mortars for the production of smoothed, decorative screeds in a layer thickness of 15 to max. 70 mm, depending on the construction.

KCF 05 and KCF 08 – applied in one or two layers acc. to

- DIN 18560-2 screeds and heating screeds on insulation layer
- DIN 18560-3 composite screeds with KORODUR Bonding Compound HB 5
- DIN 18560-4 screeds on separation layer

COLOURS

cement grey, light grey, basalt grey, anthracite, beige, red, olive

FIELDS OF APPLICATION

Sales rooms, museums, exposition rooms, boutiques, lobbies, office and administration buildings, restaurants, galleries.

PROPERTIES

- resistant against mechanical stress
- mineral
- durable, sustainable
- anti-skid

PROCESSING

KCF is applied as composite screed acc. to DIN 18560-3 on existing sub-base (base concrete min. C25/30), which has to be load-bearing, clean, free from contamination/separation layers

Bond strength min. 1,5 N/mm².
The prepared sub-base is thoroughly pre-wet, avoiding puddles. On to the matt-damp surface, the KORODUR Bonding Compound HB 5 is applied system-conforming (see data sheet).

KCF dry mortar is mixed with water in plastic consistency and applied fresh-in-fresh onto the still damp bonding compound, stroke off aligned and timely grinded and smoothed (water dosage see back).
The KCF surface is repeatedly mechanically smoothed until a shiny texture appears.
At the end of the setting phase the surface is smoothed using wing float until closure of pores is achieved. Edges have to be intensively smoothed by hand.

AFTER-TREATMENT

The surface-finished KCF design floor must be protected by after-treatment. In particular colored floors, which will be subject to first maintenance treatment, must not be after-treated with a curing agent. This would cause the risk of pore closure. In this case, in principle, appropriate covering materials should be used (e.g. 400 g painter's cardboard).

FIRST MAINTENANCE

To ensure durable quality and nice optical appearance, the whole surface, after adequate drying and setting (at least 21 days), must be cleaned pore-deep and maintenance treated. Different products are available on request.

PRODUCTION

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

PACKAGING/STORAGE

25 kg special paper packaging
Store dry, like cement
Shelf-life approx. 6 months

HINTS

Our recommendations for application technique are based on our experiences. It is recommended to adapt the processing to the given local conditions and we refer in this context to our general terms of sale and delivery.
Hairline crack formation respectively shrinkage deformation, in principle, cannot be excluded with the KCF system (decorative cement screed) and thus are not considered as technical defect.

Colored products are exclusively produced from natural raw materials. Thus color deviations cannot be excluded. The printed color may deviate from the original color shade. Test areas are recommended.
For light-colored floors the use of plastic wings for smoothing is recommended.
This product contains cement and has an alkaline reaction with moisture/water. Therefore protect hands and eyes. In case of contact with eyes consult doctor.

per June 2017

WH KORODUR®

KORODUR COPETTI FLOOR - KCF®

CONSTRUCTION

Depending on the construction, stress or product variant, different construction types can be selected, see construction examples.

PRODUCTS

KCF 05: CT - C45 - F6 - A5

KCF 08: CT - C35 - F5 - A5

TECHNICAL DATA

raw material basis: special binding agents, specially selected aggregates

layer thickness: 15 to 70 mm
depending on construction type
(see demands acc. to DIN 18560)

consumption: approx. 2,1 kg/m²/mm

fire grading: $A1_{fl}$
acc. to DIN EN 13501/1

processing temperature: ≥ 5 °C

water admixture per 25 kg bag:
KCF 05 approx. 2,50 l
KCF 08 approx. 2,25 l

CONSTRUCTION EXAMPLES

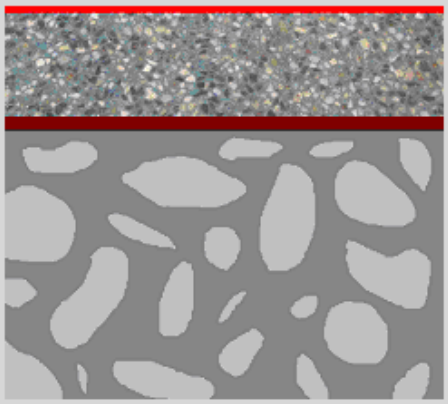
KCF – composite screed acc. to DIN 18560-3

first maintenance

KCF 05 layer thickness 15 to 25 mm
KCF 08 layer thickness 25 to 50 mm

KORODUR Bonding Compound HB 5

load-bearing sub-base
acc. to DIN 18560-3, par. 4.1



KCF – heating screed on insulation layer acc. to DIN 18560-2

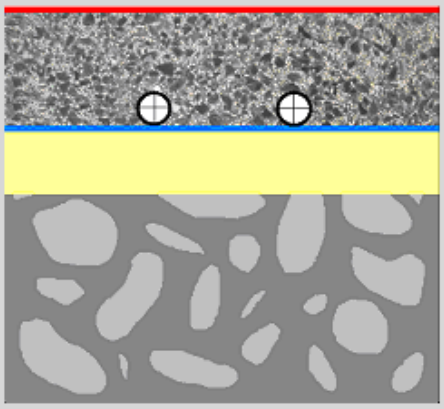
first maintenance

KCF 08 layer thickness min. 45 mm
over heating element up to a
total thickness of max. 70 mm

covering

insulation layer

load-bearing sub-base
acc. to DIN 18560-2, par. 4.1



INSTALLATION METHODS-

products	quality	grain size	installation method		
			acc. to DIN 18560-3 in one layer in composite on KORODUR HB 5	acc. to DIN 18560-4 in one layer on separation layer	acc. to DIN 18560-2 in one layer on insulation layer
KCF 05	CT - C45 - F6 - A5	0 – 5 mm	15 – 25 mm	not recommended	not recommended
KCF 08	CT - C35 - F5 - A5	0 – 8 mm	25 – 50 mm	35 – 70 mm	45 – 70 mm

VARIANTS

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Telefax: +49 (0) 23 27 / 32 10 84
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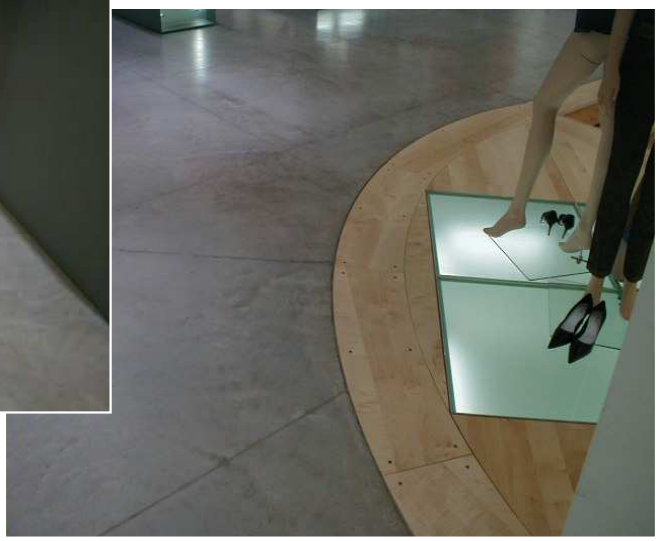
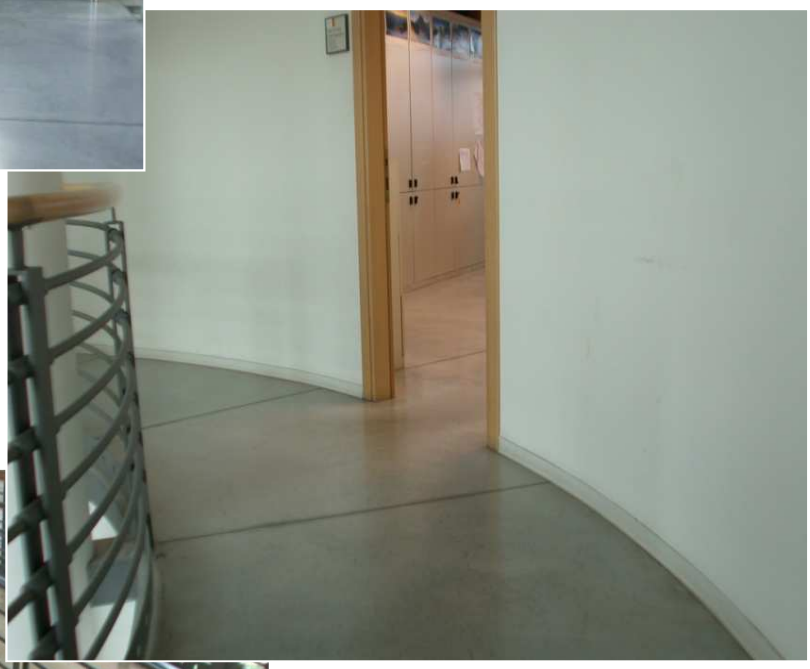
0617/166

Boutique, Mannheim, Germany
200 m²
KCF cement-grey
performance in 1996



Art of Chocolate, Schwarzach, Germany
400 m²
KCF cement-grey
with KOROCLEAN
performance in 2008

Office building, Mestre, Italy
900 m²
KCF cement-grey
architect/designer: Alessandro Copetti
performance in 2000

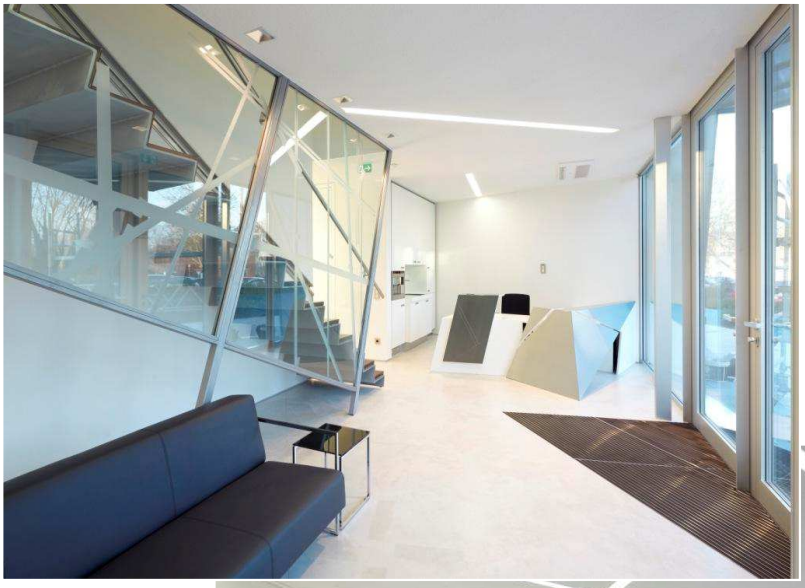


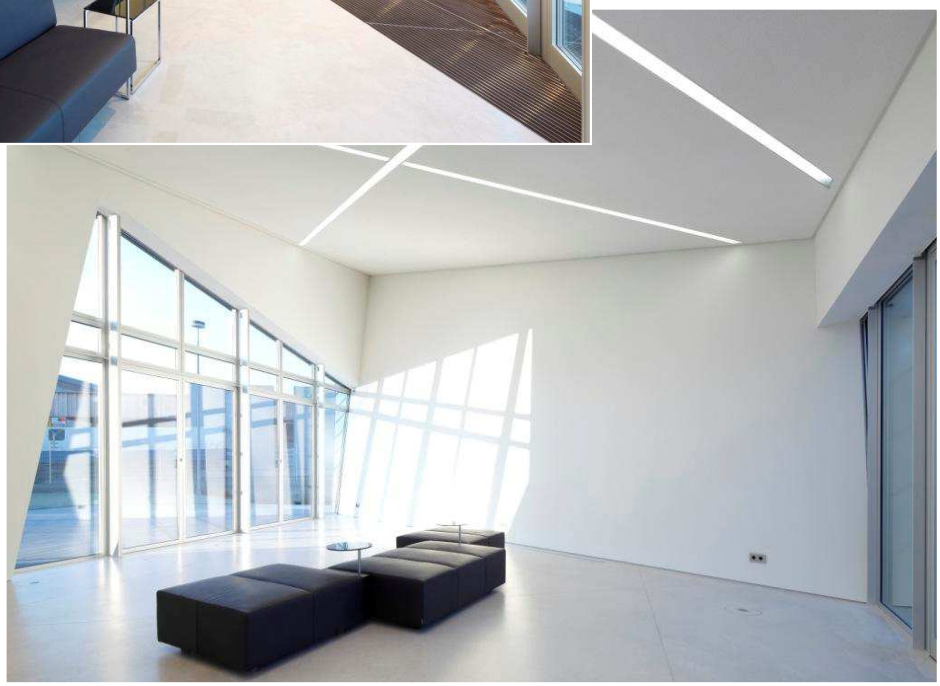
Armani Teatro, Milano, Italy
2.500 m²
KCF light-grey
architect: Pellini (company Armani)
performance in 2001

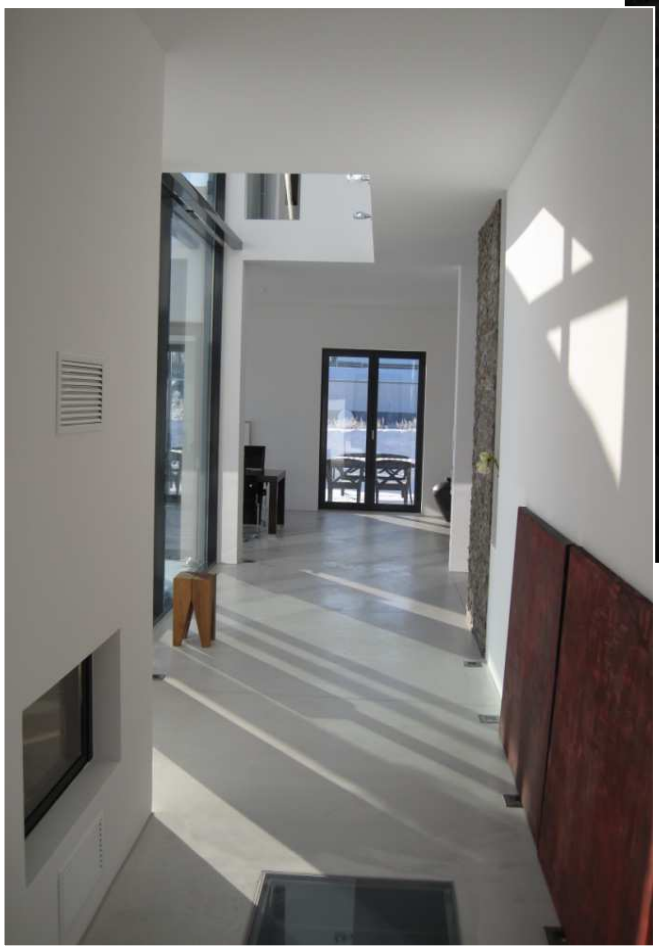
Renault, Amberg, Germany
400 m²
KCF light-grey
architect: Harth + Flierl
performance in 1999

Garden design museum, Erfurt, Germany
500 m²
KCF anthracite
architect: Peter Kulka
performance in 1999

Libeskind-Villa
Reception building Rheinzink, Datteln, Germany
170 m²
KCF 05 light-grey
architect: Studio Daniel Libeskind
performance in 2009





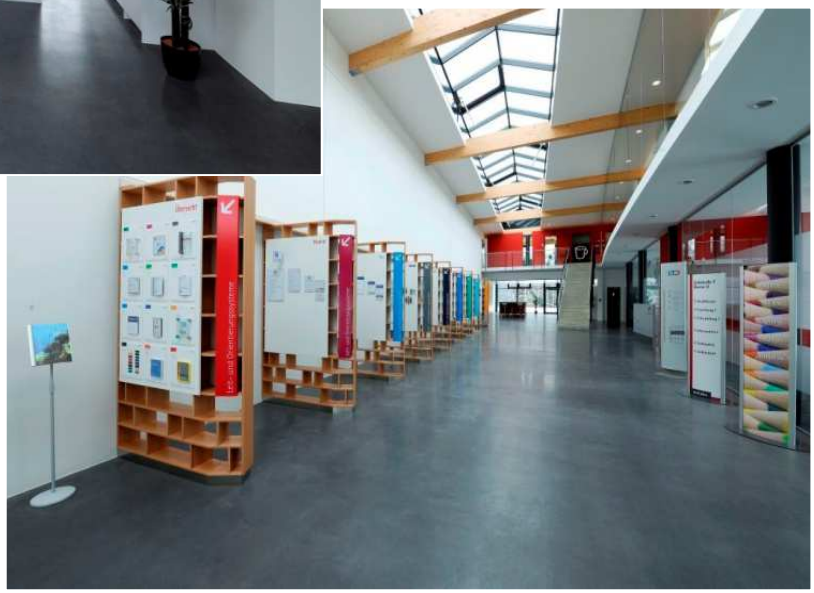


Residential home,
Holzwickede, Germany
320 m²
KCF 05 cement-grey
architect: Andrea Berressem
performance in 2008

Residential building, Meerbusch, Germany
80 m²
KCF 05 light-grey
architect: Döring Dahmen Joeressen architects
performance in 2008

Town hall, Goch, Germany
900 m²
KCF 05 anthracite
architect: Wrede architects BDA
performance in 2006

Administration building, Amberg, Germany
400 m²
KCF 05 anthracite
with KOROCLEAN
architect: Harth + Flierl
performance in 2009



Office, Mönchengladbach, Germany
400 m²
KCF 05 anthracite
architect: Schotes GmbH
performance in 2005

DESIGNBODEN

GRANIDUR®

polished KORODUR Design Floor in granite optics

DESCRIPTION

GRANIDUR 03, GRANIDUR 05* and **GRANIDUR 08***– factory- produced, ready to use, coloured dry mortars for the production of polished, decorative screeds in a layer thickness of 15 to max. 70 mm, depending on the construction.

GRANIDUR 03, GRANIDUR 05 and GRANIDUR 08 – applied in one or two layers acc. to

- DIN 18560-2 screeds and heating screeds on insulation layer
- DIN 18560-3 composite screeds with it KORODUR Bonding Compound HB 5
- DIN 18560-4 screeds on separation layer.

COLOURS

cement-grey, light-grey, basalt-grey, anthracite, beige, red, olive

FIELDS OF APPLICATION

Sales rooms, museums, exposition areas, boutiques, foyers, office and administration buildings, restaurants, galleries.

PROPERTIES

- resistant against mechanical stress
- mineral
- durable, sustainable
- anti-skid

PROCESSING

GRANIDUR is applied as composite screed acc. to DIN 18560-3 on existing load-bearing, clean sub-base, which is free from contamination/separation layers (compressive strength ≥ 30 N/mm², bond strength ≥ 1,5 N/mm²).
The prepared sub-base is thoroughly pre-wet, avoiding puddles. On to the matt-damp surface, the KORODUR Bonding Compound HB 5 is applied system-conforming (see data sheet).

GRANIDUR dry mortar is mixed with water in plastic consistency and applied fresh-in-fresh onto the still damp bonding compound, stroke off aligned and timely ground and smoothed (water dosage see back).

AFTER-TREATMENT

The design floor must be thoroughly protected from too rapid drying out acc. to DIN 1045.
For after-treatment appropriate covering materials should be used (e.g. 400 g painter's cardboard).
Differing temperatures may influence the hardening/setting procedure.

GRINDING/POLISHING

The GRANIDUR surface is polished in up to 5 polishing steps (rough and fine polishing) until the requested optics is achieved. See also specifications grinding technique of company MKS Funke.
After polishing, the surface is repeatedly wet cleaned using cleaning machine with brush head.

FIRST MAINTENANCE

To ensure durable quality and nice optical appearance, the whole surface, after adequate drying and setting (at least 21 days), must be cleaned pore-deep and maintenance treated. Different products are available on request.

PRODUCTION

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

SUPPLY/STORAGE

25 kg special paper packaging
Store dry, like cement
Shelf-life approx. 6 months

HINTS

Our recommendations for application technique 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.
Hairline crack formation respectively deformation by shrinkage on principle cannot be excluded with the GRANIDUR system (decorative cement screeds) and thus are not considered as technical defect.
Coloured products are exclusively produced from natural raw materials. Thus colour deviations cannot be excluded. The printed colour may deviate from the original colour shade. Test areas are recommended.
This product contains cement and has an alkaline reaction with moisture/water. Therefore protect hands and eyes. In case of contact with eyes consult doctor.

per July 2013

* equivalent to the former SECUNDUR.

WH KORODUR®

GRANIDUR®

CONSTRUCTION

Depending on the construction, stress or product variant, different construction types an be selected, see construction examples.

PRODUCTS

GRANIDUR 03: CT – C45 – F6

GRANIDUR 05: CT – C45 – F6

GRANIDUR 08: CT – C35 – F5

TECHNICAL DATA

raw material basis: special binding agents, specially selected aggregates

layer thickness: 15 to 70 mm
depending on the construction
(see demands acc. to DIN 18560)

consumption: approx. 2,1 kg/m²/mm
fire grading: $A1_{fl}$
acc. to DIN EN 13501/1

processing temperature: ≥ 5 °C

water admixture per 25 kg bag:

GRANIDUR 03	approx. 2,50 l
GRANIDUR 05	approx. 2,50 l
GRANIDUR 08	approx. 2,25 l

CONSTRUCTION EXAMPLES

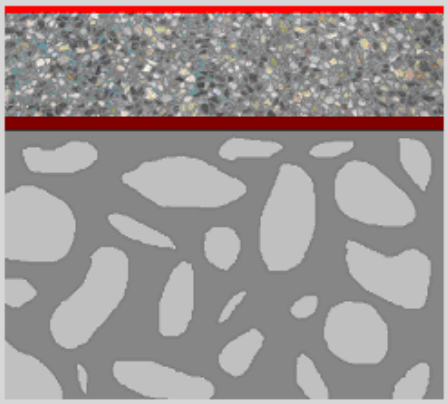
GRANIDUR – composite screed acc. to DIN 18560-3

first maintenance

GRANIDUR 03 layer thickness 15 mm
GRANIDUR 05 layer thickness 15 to 25 mm
GRANIDUR 08 layer thickness 25 to 50 mm

KORODUR Bonding Compound HB 5

load-bearing sub-base
compressive strength ≥ 30 N/mm²
bond strength ≥ 1,5 N/mm²



GRANIDUR – heating screed on insulation layer acc. to DIN 18560-2

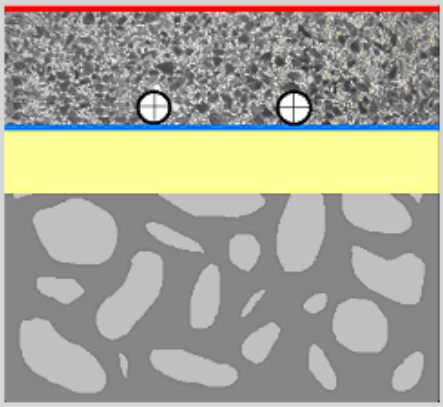
first maintenance

GRANIDUR 08 layer thickness min. 45 mm
over heating element up to a total thickness of max. 70 mm

covering

insulation layer

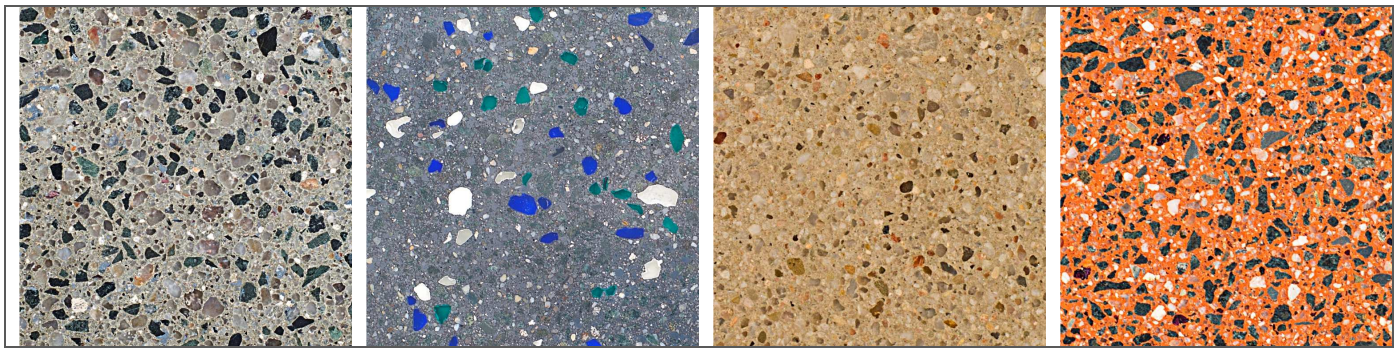
load-bearing sub-base
compressive strength ≥ 30 N/mm²
bond strength ≥ 1,5 N/mm²



INSTALLATION METHODS

products	quality	grain size	installation method		
			acc. to DIN 18560-3 in one layer in composite on KORODUR HB 5	acc. to DIN 18560-4 in one layer on separation layer	acc. to DIN 18560-2 in one layer on insulation layer
GRANIDUR 03	CT – C45 – F6	0 – 3 mm	in middle 15 mm	not recommended	not recommended
GRANIDUR 05	CT – C45 – F6	0 – 5 mm	15 – 25 mm	not recommended	not recommended
GRANIDUR 08	CT – C35 – F5	0 – 8 mm	25 – 50 mm	35 – 70 mm	45 – 70 mm

VARIANTS



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wattenscheid@korodur.de

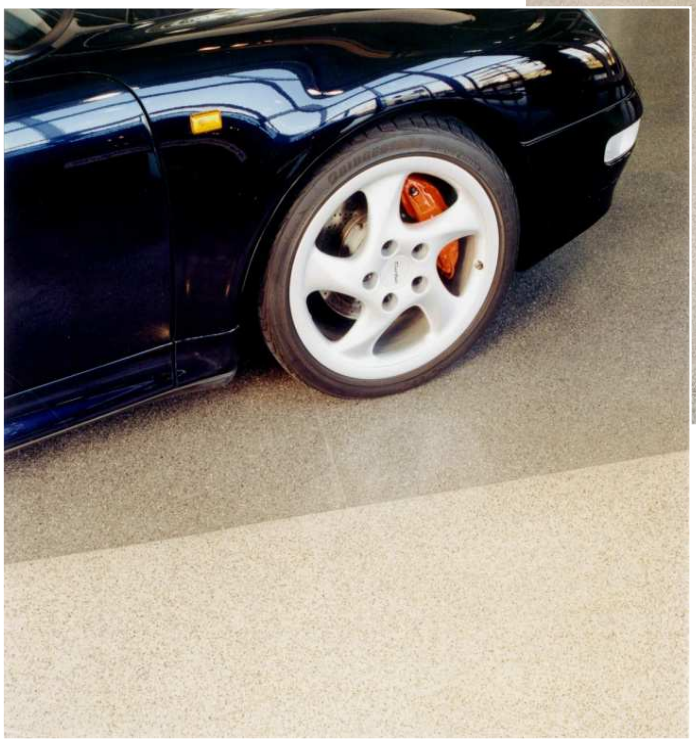
Olympic stadium, Berlin, Germany
3.000 m²
GRANIDUR anthracite
architect: Arcadis Planungs-gemeinschaft Olympiastadion
performance in 2005

Exposition area, Wessobrunn, Germany
750 m²
GRANIDUR anthracite
architect: Hans Kornmayer
performance in 2003

Foyer + Cafeteria, Office building, Amberg, Germany
400 m²
GRANIDUR anthracite
architect: Harth + Flierl
performance in 2001

Commissary, Heidelberg, Germany
1.200 m²
GRANIDUR beige (special color)
architect: Lang
performance in 1999

Porsche, Lörrach, Germany
600 m²
GRANIDUR light-grey and anthracite
architect: Külby & Steinröder
performance in 1998



Shopping arcades, Düren, Germany
600 m²
GRANIDUR 05 red,
architect: Glashaus architects
performance in 2005

Bistro Meilenwerk,
Dusseldorf, Germany
250 m²
GRANIDUR 05 red
architect: RKW Architektur + Städtebau
performance in 2006

Residential home,
Recklinghausen, Germany
60 m²
GRANIDUR 05 anthracite
architect: Huth - Ravagni
performance in 2006

Medical practice, Affoltern, Switzerland
200 m²
GRANIUR 05 anthracite
architect: Martin Toppler
performance in 2008

ZOB Central bus terminal, Munich, Germany
1.000 m²
GRANIDUR 05 anthracite
architect: Auer+Weber+ Assoziierte and Wenzel+Wenzel
performance in 2009

DESIGNBODEN

GRANIDUR® BIANCO/NERO

polished KORODUR Design Floor, in granite optics, light or dark

DESCRIPTION

GRANIDUR BIANCO and **GRANIDUR NERO** – factory-produced, ready to use dry mortars for the production of polished, decorative screeds in a layer thickness of in middle 15 mm.

GRANIDUR BIANCO/NERO is applied in one layer acc. to DIN 18560-3 as composite screed with KORODUR HB 5 Bonding Compound.

FIELDS OF APPLICATION

Sales rooms, museums, exposition areas, boutiques, lobbies, office and administration buildings, restaurants, galleries.

PROPERTIES

- resistant against mechanical stress
- mineral
- durable, sustainable
- skid-resistant

PROCESSING

GRANIDUR BIANCO/NERO acc. to DIN 18560-3 is applied on load-bearing, clean sub-base, which is free from contamination / separation layers (compressive strength ≥ 30 N/mm², bond strength ≥ 1,5 N/mm²)
The prepared sub-base is thoroughly pre-wet, avoiding puddles.
On to the matt-damp surface the KORODUR HB 5 Bonding Compound is applied system-conforming (see data sheet). For GRANIDUR BIANCO use KORODUR HB 5 white.

GRANIDUR dry mortar is mixed in stiff to plastic consistency and applied fresh-in-fresh on to the still damp bonding compound, stroke off aligned and timely ground and smoothed.

AFTER-TREATMENT

The design floor must be thoroughly protected from too rapid drying out acc. to DIN 1045.

For after-treatment appropriate covering materials should be used (e.g. 400 g painter's cardboard).
Differing temperatures may influence the hardening/setting procedure.

GRINDING/POLISHING

The GRANIDUR surface is polished in up to 5 polishing steps (rough and fine polishing) until the requested optics is achieved. The grain structure of the GRANIDUR materials shows (terrazzo optics). See also specifications grinding technique of company MKS Funke.
After polishing, the surface is repeatedly wet cleaned using cleaning machine with brush head.

FIRST MAINTENANCE

To ensure durable quality and attractive optical appearance, the whole surface, after adequate drying and setting (at least 21 days), must be cleaned pore-deep and maintenance treated. Different products are available on request.

PRODUCTION

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

SUPPLY/STORAGE

25 kg special paper packaging.
Store dry, like cement.
Shelf-life approx. 6 months.

HINTS

Our recommendations for application technique 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.
Hairline crack formation respectively deformation by shrinkage on principle cannot be excluded with the system (decorative cement screeds) and thus are not considered as technical defect.

Colored products are exclusively produced from natural raw materials. Thus colour deviations cannot be excluded. The printed colour may deviate from the original colour shade. Test areas are recommended.

Colored floors, in particular in bright colours, should not be treated with aluminum tools (smoothing lath, power trowel) as undesired discolouration might occur. E.g. use only plastic wings for smoothing.

This product contains cement and has an alkaline reaction with moisture/water. Therefore protect hands and eyes. In case of contact with eyes consult doctor.

per March 2017

WH KORODUR®

GRANIDUR® BIANCO/NERO

CONSTRUCTION

Depending on the construction, stress or product variant, different construction types can be selected, see construction example.

PRODUCTS

GRANIDUR BIANCO: CT - C45 - F6

GRANIDUR NERO: CT - C45 - F6

TECHNICAL DATA

raw material basis: special binding agents, specially selected aggregates
layer thickness: in middle 15 mm depending on construction type (see demands acc. to DIN 18560)

consumption: approx. 2,1 kg/m²/mm
fire grading: $A1_{fl}$ acc. to DIN EN 13501/1

processing temperature: ≥ 5 °C

water admixture: approx. 2,5 l per 25 kg-bag

CONSTRUCTION EXAMPLE

Composite screed acc. to DIN 18560-3

GRANIDUR BIANCO/NERO

First maintenance

Design floor

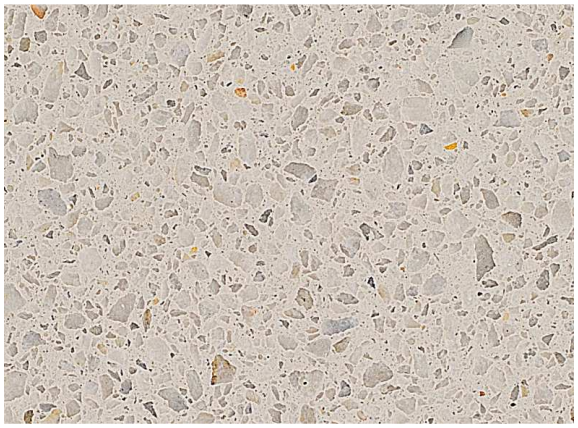
Bonding compound

Load-bearing sub-base

INSTALLATION VARIANTS

products	quality	grain size	installation method
			acc. to DIN 18560-3 in one layer in composite on KORODUR HB 5
GRANIDUR BIANCO	CT – C45 – F6	0 – 5 mm	in middle 15 mm
GRANIDUR NERO	CT – C45 – F6	0 – 5 mm	in middle 15 mm

VARIANTS



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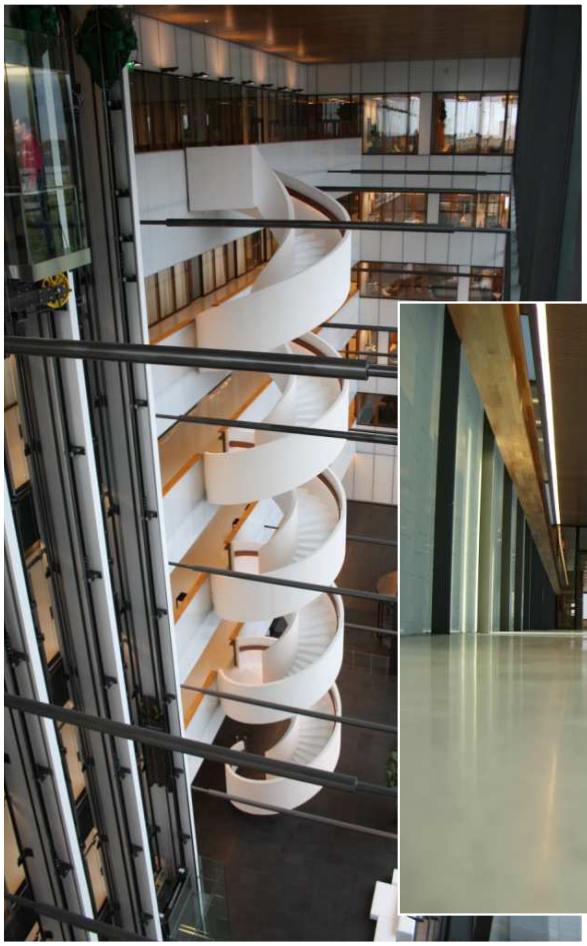
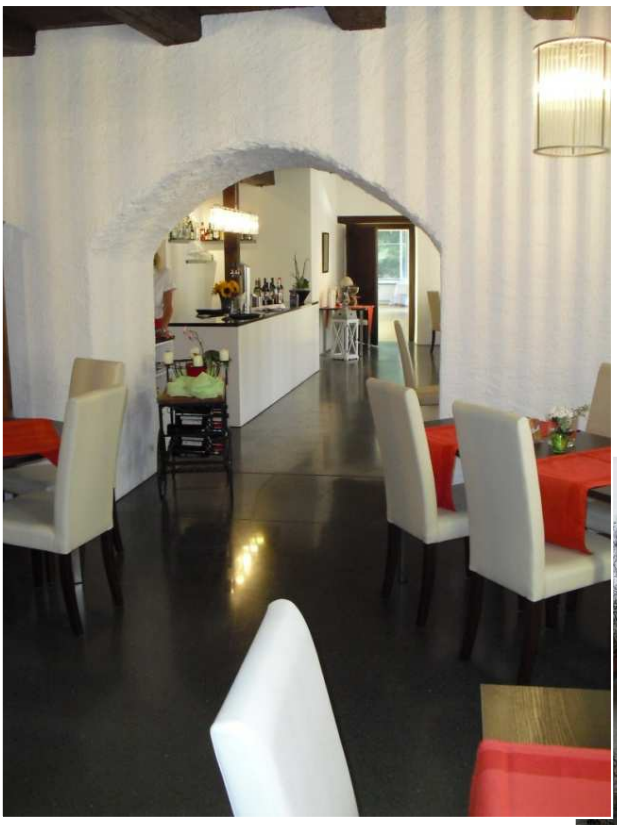


Administration building, Helsinki, Finland
1.500 m²
GRANIDUR BIANCO
performance in 2009

Sports facilities Raigering, Amberg, Germany
230 m²
GRANIDUR BIANCO
performance in 2010



Restaurant Müli, Switzerland
190 m²
GRANIDUR NERO
performance in 2010

Rapid Set® TRU® Self-Leveling

The decorative floor, for indoors and outdoors

self-leveling, fast-setting, best for polishing

Highlights:

- ***Self-Leveling / Fast-setting***
  ready for foot traffic in 2 - 3 h
- ***Best for Polishing***
  already in 24 h
  to a high dense sheen
- ***Attractive***
  colored, sprinkling of decorative aggregates
- ***High-Strength***
  in 4 h already 20,00 N/mm²
- ***Thickness***
  4 - 35 mm
- ***Indoors and Outdoors***
- ***Multipurpose***
- ***Mineral***
- ***Easy to clean***

PRODUCT NAME

Rapid Set® TRU® Self-Leveling
The decorative floor for indoors and outdoors.

PRODUCT DESCRIPTION

Rapid Set TRU Self-Leveling is a high quality, innovative, self-leveling design floor based on special cement technology that is ideal there where high early strength, durability and low shrinkage setting are desired. TRU Self-Leveling maintains workability for up to 30 minutes and at a temperature of + 20°C is ready to receive foot traffic after 2 - 3 h.
TRU Self-Leveling can be polished already after 24 h after placement to high dense sheen. Final thickness from 4 - 35 mm.

Rapid Set TRU Self-Leveling can be carried out in various colors. In case of polished optics, additional individual effects can be achieved by sprinkling decorative aggregates (e.g. glass, marble). Given the manifold options, it is recommended to run on-site pilot tests/test areas.

FIELDS OF APPLICATION

TRU Self-Leveling is a multipurpose product that is ideal for individual and creative design:
For attractive, unique design of prestigious interiors, such as sales rooms, restaurants, foyers, museums, administrative buildings.
Qualified for indoor and outdoor use.

COLOR [natural]

Rapid Set TRU Self-Leveling can be individually stained and colored. The final surface color may vary depending on the processing technique and environmental conditions.

PROCESSING

PREPARATION OF SUB-BASE

Sub-base must be load-bearing, resistant to compression and tension, dry and cleaned from contamination, separation agents or loose debris. Bond strength minimum 1,5 N/mm². The demands of DIN 18365 and DIN 18560 apply. Joints in the underground have to be taken over.

TRU® Self-Leveling

The decorative floor, for indoors and outdoors

self-leveling, fast-setting, best for polishing

TECHNICAL DATA *at + 20°C*	
Working time	approx. 20 minutes
Flow time	approx. 15 minutes
Sub-base temperature Air temperature Material temperature	+ 10°C bis + 30°C + 10°C bis + 30°C + 16°C bis + 27°C
Consumption	
Consumption	approx.1,7kg/m²/mm
Compressive strength (ASTM C-109 Mod.)	
after 4 hours	approx. 20,0 N/mm²
after 1 day	approx. 34,0 N/mm²
after 28 days	approx. 45,0 N/mm²
Bond strength (ASTM C-307)	
after 7 days	approx. 1,5 N/mm²
after 28 days	approx. 2,5 N/mm²
Flexural strength (ASTM C-348)	
after 24 hours	approx. 6,0 N/mm²
after 28 days	approx. 13,0 N/mm²

PRIMER

Priming with 2-component epoxy resin primer KORODUR TXPK, afterwards solid sanding with fire-dried quartz sand, grain size 0,4 - 0,8 mm (see technical data sheet KORODUR TXPK).

MIXING and PROCESSING

The use of qualified mixing equipment is recommended (e.g. Hippo Mixer, Collomix LevMix). Avoid mixers that entrap large amounts of air. Mix TRU Self-Leveling with maximum 4,1 l water per 22,7 kg bag. To achieve uniform consistency, mix for 3 - 5 minutes. Define the correct consistency by determination of slump. We recommend the use of our “flow kits” with relevant instructions.

TRU Self-Leveling is applied on the prepared and primed sub-base in a final thickness of minimum 4 mm.
TRU Self-Leveling levels within its flow time of 15 minutes.
For uniform application of the material the use of a qualified rake is recommended. To remove air enclosures, treat the still flowable surface with spiked roller.

Protect the whole area during the application until walkability is achieved from too rapid drying out, wind, drafts, sun irradiation.

For thickness > 35 mm the TRU material can be extended by adding quartz sand (check-back with application engineering department).

Environmental and material temperature above + 20°C may speed setting time and strength development. Adapt the application. It is recommended to use chilled mixing water.

Environmental and material temperature below + 20°C may delay setting time and strength development, specifically for thinner layers. We recommend to keep the material warm and/or use heated mixing water.

CURING

Under normal conditions no curing required. Under dry, windy, hot or sunny conditions, the application of fine water mist to the sufficiently set TRU Self-Leveling surface is recommended.

POLISHING

TRU Self-Leveling is ready for polishing in 24 hours after application. TRU surfaces can be polished to a high dense sheen. Polishing guidelines are available on request.
Please note: When polishing, up to 3 mm (depending on the desired optics) of the initial layer thickness are polished off.

FIRST MAINTENANCE TREATMENT

After drying/walkability it is recommended to apply a qualified impregnation/first maintenance treatment, e.g. Obtego, Ameripolish. This provides increased chemical resistance, has a moisture and dirt-repellent effect, optimizes the optical appearance.

STORAGE

Dry, like cement.
Shelf-Life approx. 6 months.

HINTS

The addition of diverse decorative and quartz aggregates on site may change the processing features and physical data. The material quality no longer meets the features indicated in the data sheet. Therefore we recommend to newly determine the technical material features on site.
This product contains cement and has an alkaline reaction with moisture/water. Therefore protect hands and eyes.
In case of contact with skin and eyes consult a doctor.
Our recommendations for application technique 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. Technical processing guidelines are available on request.

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Cert.: DIN EN ISO 9001:2008

per May 2017

0517/430

Installation recommendation TRU Self-Leveling

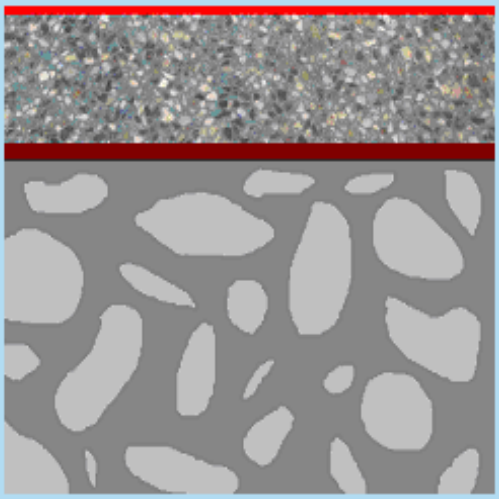
Installation example TRU Self-Leveling decorative screed

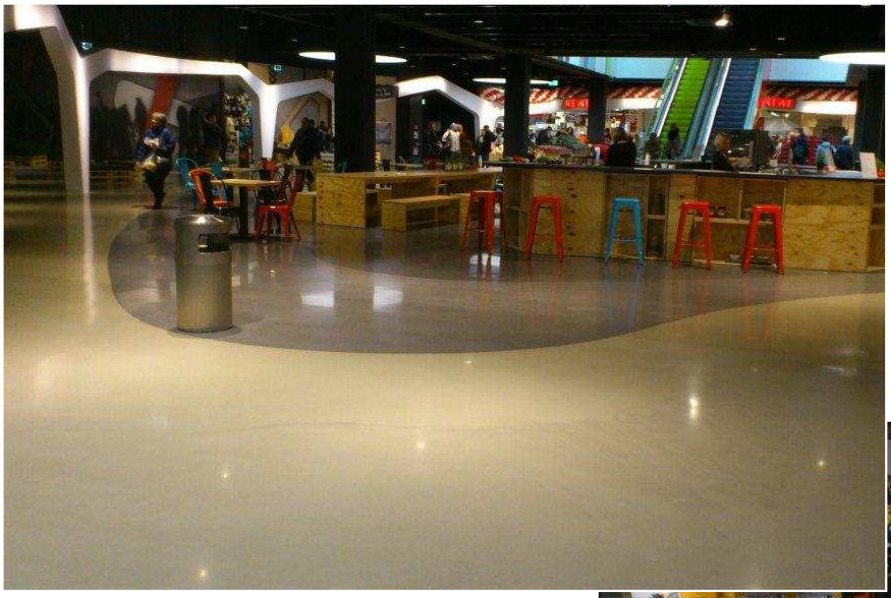
first maintenance e. g. OBTEGO R-400
OBTEGO P-3

TRU Self-Leveling
layer thickness 4 - 35 mm

KORODUR TXPK
EP-primer

load-bearing, cementitious sub-base
compressive strength ≥ 30 N/mm²
bond strength ≥ 1,5 N/mm



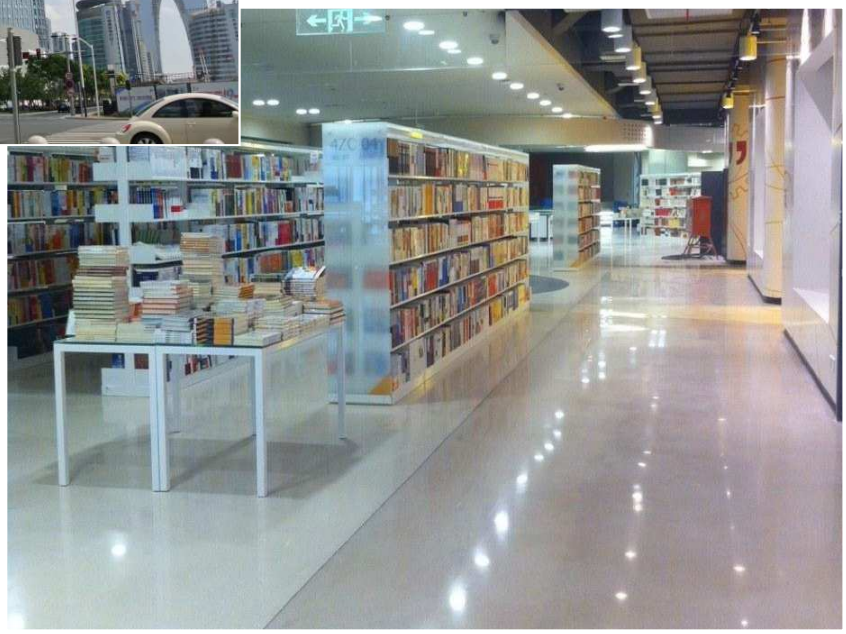


Köln Arcaden, Germany
1.500 m²
TRU Self-Leveling
Color: Mixol
performance in 2013

Garage, Hirschau, Germany
70 m²
TRU Self-Leveling
Color: Mixol
performance in 2012

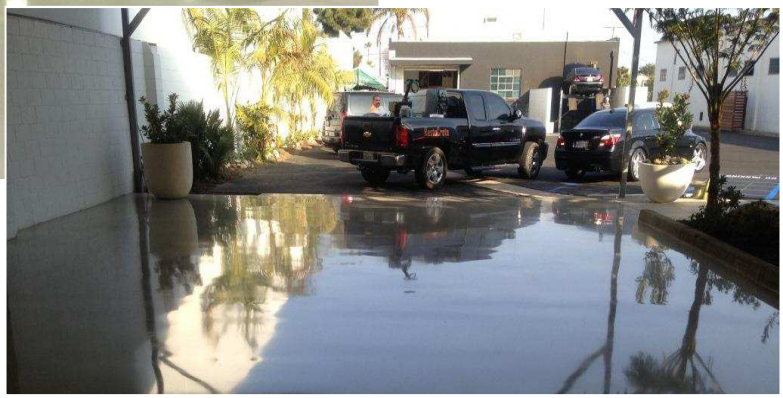
Christopherus-House, Witten, Germany
300 m²
TRU Self-Leveling
Color: Mixol
performance in 2012

Phoenix Shopping Mall, Suzhou, China
15.000 m²
TRU Self-Leveling
performance in 2013

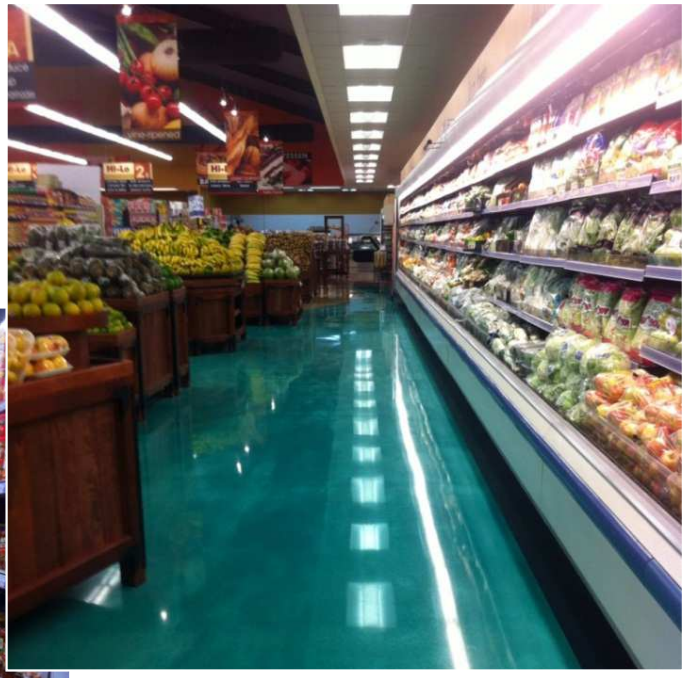


Fit2Run, USA
420 m²
TRU Self-Leveling
Color: Ameripolish
performance in 2013

Doctor Detail, USA
325 m²
TRU Self-Leveling
Color: Ameripolish
performance in 2012



Supermarket, Trinidad, Tobago
approx. 1.000 m²
TRU Self-Leveling
Color: Ameripolish
performance in 2012



Rapid Set®

TRU® GRAY Self-Leveling

The decorative floor for indoors and outdoors

self-leveling, fast-setting, best for polishing

Highlights:

- ***Self-Leveling / Fast-Setting***
  ready for foot traffic in 2 - 3 h
- ***Polishable***
  in 24 h to a high dense sheen
- ***Attractive***
  also with decorative aggregates
- ***High-Strength***
  in 4 h already 20,0 N/mm²
- ***Thickness***
  4 - 35 mm
- ***Indoors and Outdoors***
- ***Multipurpose***
- ***Mineral***
- ***Easy to clean***

PRODUCT NAME
Rapid Set® TRU® GRAY Self-Leveling
The decorative floor in gray color for indoors and outdoors.

PRODUCT DESCRIPTION
TRU GRAY is a high-quality, innovative, self-leveling, mineral design floor, based on special cement technology; ideal there where high early strength, durability and low shrinkage setting are desired. TRU GRAY maintains workability for up to 20 minutes and at a temperature of + 20°C is ready for foot traffic after 2 - 3 hours. TRU GRAY can be polished to a high dense sheen already in 24 hours after placement. Final thickness from 4 - 35 mm. Additional individual effects can be created by sprinkling decorative aggregates (e.g. glass, marble). It is recommended to run on site pilot tests / test areas.

FIELDS OF APPLICATION
TRU GRAY is a multipurpose product that is ideal for individual and creative design: For attractive, unique design of prestigious interiors, such as sales rooms, restaurants, foyers, museums, administrative buildings. Qualified for indoor and outdoor use.

COLOR gray

PROCESSING
PREPARATION OF SUB-BASE
Sub-base must be load-bearing, resistant to compression and tension, dry and cleaned from contamination, separation agents or loose debris.
Bond strength minimum 1,5 N/mm².
The demands of DIN 18365 and DIN 18560 apply. Joints in the underground have to be taken over.

PRIMER
Priming with 2 component epoxy primer KORODUR TXPK, afterwards solid sanding with fire-dried quartz sand, grain size 0,4 - 0,8 mm (see technical data sheet KORODUR TXPK).

Rapid Set

TRU® GRAY Self-Leveling

The decorative floor for indoors and outdoors

self-leveling, fast-setting, best for polishing

TECHNICAL DATA *at + 20°C*	
Working time	approx. 20 minutes
Flow time	approx. 15 minutes
Sub-base temperature Air temperature Material temperature	+ 10°C to + 30°C + 10°C to + 30°C + 16°C to + 27°C
Consumption	
Consumption	approx.1,7 kg/m²/mm
Compressive strength (ASTM C-109 Mod.)	
after 4 hours	approx. 20,0 N/mm²
after 1 day	approx. 34,0 N/mm²
after 28 days	approx. 45,0 N/mm²
Bond strength (ASTM C-307)	
after 7 days	approx. 1,5 N/mm²
after 28 days	approx. 2,5 N/mm²
Flexural strength (ASTM C-348)	
after 24 hours	approx. 6,0 N/mm²
after 28 days	approx. 13,0 N/mm²

MIXING AND PROCESSING

The use of qualified mixing equipment is recommended (e.g. Hippo Mixer, Collomix LevMix). Avoid mixers that entrap large amounts of air. Mix TRU GRAY with maximum 4,1 l water per 22,7 kg bag. To achieve uniform consistency, mix for 3 - 5 minutes. Define the correct consistency by determination of slump. We recommend the use of our “Flowkits” with relevant instructions.

TRU GRAY is applied on the prepared and primed sub-base in a final thickness of minimum 4 mm. TRU GRAY levels within its flow time of 15 minutes. For uniform application of the material the use of a qualified rake is recommended. To remove air enclosures, treat the still liquid surface with spiked roller.

Protect the whole area - during the application until walkability is achieved - from too rapid drying out, wind, drafts, sun radiation.

Environmental and material temperature above + 20°C may speed setting time and strength development. Adapt the application. It is recommended to use chilled mixing water.

Environmental and material temperature below + 20°C may delay setting time and strength development, specifically for thinner layers. We recommend to keep the material warm and/or use heated mixing water.

CURING

Under normal conditions no curing required. Under dry, windy, hot or sunny conditions, the application of fine water mist to the sufficiently set TRU GRAY surface is recommended.

POLISHING

TRU GRAY is ready for polishing in 24 hours after application. The TRU surface can be polished to a high dense sheen. Polishing guidelines are available on request.
Please note: With the polishing process, up to 3 mm of the initial layer thickness are abraded (depending on the desired optics)! To be considered for the final thickness.

FIRST MAINTENANCE TREATMENT

After drying/walkability it is recommended to apply a qualified impregnation/first maintenance treatment, e.g. Obtego, Ameripolish. This provides increased chemical resistance, has a moisture and dirt-repellent effect, optimizes the optical appearance.

STORAGE

Dry, like cement.
Shelf-life approx. 6 months.

HINTS

The addition of diverse decorative and quartz aggregates on site may change the processing features and physical data. The material quality no longer meets the features indicated in the data sheet. Therefore we recommend to newly determine the technical material features on site. This product contains cement and has an alkaline reaction with moisture/water. Therefore protect hands and eyes. In case of contact with eyes consult a doctor. Our recommendations for application technique 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. Technical processing guidelines are available on request.

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Cert.: DIN EN ISO 9001:2008

per May 2017

0517/516

Installation recommendation TRU GRAY

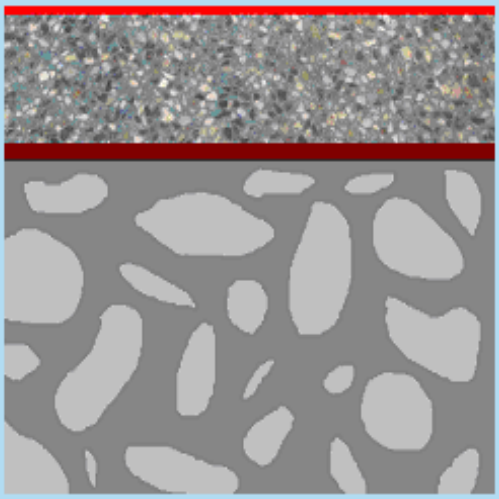
Installation example TRU GRAY decorative screed

first maintenance e. g. OBTEGO R-400
OBTEGO P-3

TRU GRAY
layer thickness 4 - 35 mm

KORODUR TXPK
EP-primer

load-bearing, cementitious sub-base
compressive strength ≥ 30 N/mm²
bond strength ≥ 1,5 N/mm



Crew cabin
TSV Mannheim
Hockey e.V., Germany
50 m²
TRU GRAY
performance in 2017

Rapid Set® TRU® PC polished concrete appearance

high-grade design floor

Highlights:

- ***Polished concrete appearance***
  high-flow topping that simulates polished concrete
- ***Fast-setting***
  ready for foot traffic in 2 - 3 hours polishable in 24 hours
- ***High-strength***
  after 24 hours approx. 34 N/mm²
  after 28 days approx. 48 N/mm²
- ***Outstanding clarity and gloss***
  highly polishable due to low polymer content and high density
- ***Attractive and versatile***
  use as resurfacer and underlayment. Numerous design possibilities by incorporation of colors and aggregates
- ***Thickness***
  10 - 35 mm
- ***Indoors and outdoors***
- ***Multipurpose***
- ***Mineral***
- ***Easy to clean***

PRODUCT NAME

Rapid Set® TRU® PC
Self-leveling design floor in terrazzo appearance

PRODUCT DESCRIPTION

TRU PC is a high quality, innovative, self-leveling, mineral design floor based on special cement technology that is ideal there where high early strength, durability and low shrinkage setting are desired.
TRU PC is designed to simulate the appearance of polished concrete.
TRU PC maintains workability for up to 20 minutes and at a temperature of approx. + 20°C is ready for foot traffic after 2 - 3 hours. Final thickness from 10 - 35 mm.

FIELDS OF APPLICATION

TRU PC is a multipurpose product that is ideal for individual and creative design:
For attractive, unique design of prestigious interiors, such as sales rooms, restaurants, foyers, museums, schools, airports, administrative buildings.
Qualified for indoor and outdoor use.
TRU PC can be produced in different color variants. Given the manifold options, it is recommended to run on-site pilot tests/test areas.

PROCESSING

PREPARATION OF SUB-BASE

Sub-base must be load-bearing, resistant to compression and tension, dry and cleaned from contamination, separation agents, loose debris. Bond strength min. 1,5 N/mm².
Mechanical preparation of sub-base, e.g. by shot-peening, is recommended.
The demands of DIN 18365 and DIN 18560 apply. Joints in the underground have to be taken over.

PRIMER

Priming with 2-component epoxy resin primer KORODUR TXPK, afterwards solid sanding with fire-dried quartz sand, grain size 0,4 - 0,8 mm (see technical data sheet KORODUR TXPK).

Rapid Set

TRU® PC polished concrete appearance

high-grade design floor

TECHNICAL DATA *at + 20°C*	
Working time	approx. 20 minutes
Flow time	approx. 15 minutes
Sub-base temperature Air temperature Material temperature	+ 10°C to + 30°C + 10°C to + 30°C + 16°C to + 27°C
Consumption	
Consumption	approx.1,7 kg/m²/mm
Compressive strength (ASTM C-109 Mod.)	
after 4 hours	approx. 19,0 N/mm²
after 1 day	approx. 34,0 N/mm²
after 28 days	approx. 48,0 N/mm²
Bond strength (ASTM C-307)	
after 7 days	approx. 1,5 N/mm²
after 28 days	approx. 2,5 N/mm²
Flexural strength	
after 24 hours	approx. 6,0 N/mm²
after 28 days	approx. 13,0 N/mm²

MIXING and PROCESSING

The use of qualified mixing equipment is recommended (e.g. Hippo Mixer, Collomix LevMix, stirrer with 650 rpm). Avoid mixers that entrap large amounts of air. Mix TRU PC with approx. 3,3 l water per 25 kg bag. To achieve uniform consistency, mix for 3 - 5 minutes. Define the correct consistency by determination of slump. We recommend the use of our “flow kits” with relevant instructions.

TRU PC is applied on the prepared and primed sub-base in a final thickness of minimum 10 mm. For uniform application of the material, the use of a qualified rake is recommended. To remove air enclosures, treat the still flowable surface with plastic spiked roller.

Protect the whole area during the application until walkability is achieved from too rapid drying out, wind, drafts, sun irradiation.

Environmental and material temperature above + 20°C may speed setting time and strength development. Adapt the application. It is recommended to use chilled mixing water.

Environmental and material temperature below + 20°C may delay setting time and strength development, specifically for thinner layers. We recommend to keep the material warm and/or use heated mixing water.

CURING

Under normal conditions no curing required. Under dry, windy, hot or sunny conditions, the application of fine water mist to the sufficiently set TRU PC surface is recommended.

POLISHING

TRU PC is ready for polishing in 24 hours after application. TRU PC grinds and polishes similar to concrete. TRU PC surfaces can be polished to a high dense sheen. Polishing guidelines are available on request.
Please note: When polishing, up to 3 mm (depending on the desired optics) of the initial layer thickness are abraded.

FIRST MAINTENANCE TREATMENT

After drying/walkability it is recommended to apply a qualified impregnation/first maintenance treatment, e.g. Obtego, Ameripolish. This provides increased chemical resistance, has a moisture and dirt-repellent effect, optimizes the optical appearance.

STORAGE

Dry, like cement.
Shelf-life approx. 6 months.

SUPPLEMENTARY SYSTEM COMPONENTS

KORODUR TXPK – epoxy primer
Rapid Set LevelFlor – self-leveling underlayment

HINTS

KORODUR design floors are cement screeds and are subject to building physics laws. Unfavorable site conditions and unpredictable influences, such as temperature, air draught or sun radiation, can cause unforeseen aspects (cracks/deformation). In particular, cracks can have most different causes and cannot be totally excluded. Depending on the quality of planning and execution their number and extent can be considerably reduced. Cracks contribute to the authenticity of the floor and are not considered as depreciation of the creative performance. KORODUR design floors are based on natural raw materials. Color and texture variations cannot be excluded. Depending on the time of day, the incidence of light or the position of the observer, the floor surfaces may have differing optical appearances. See also BEB Worksheet Design floors 09/14.
These products contain cement and have an alkaline reaction with moisture/water. Therefore protect hands and eyes. In case of contact with eyes consult a doctor. Our recommendations for application technique 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. Technical processing guidelines are available on request.

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per May 2017

0517/508

Installation recommendation TRU PC

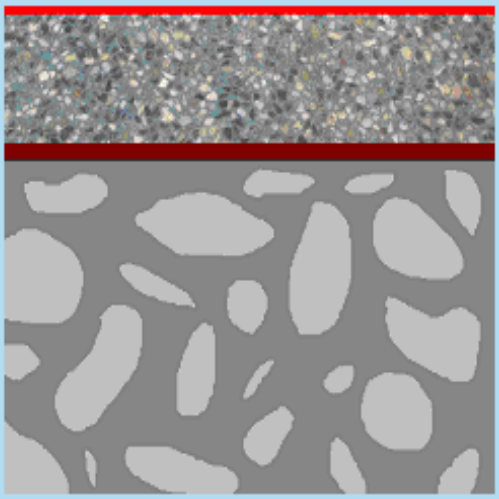
Installation example TRU PC decorative screed

first maintenance e. g. OBTEGO R-400
OBTEGO P-3

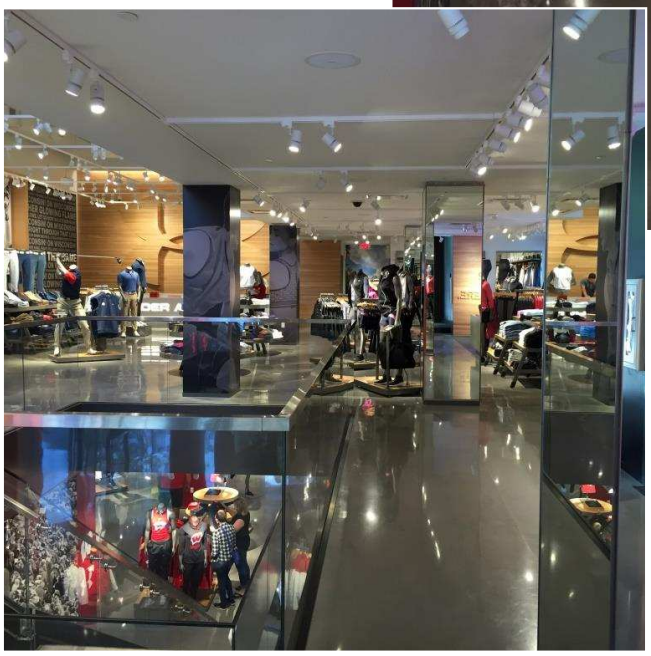
TRU PC
layer thickness 10 - 35 mm

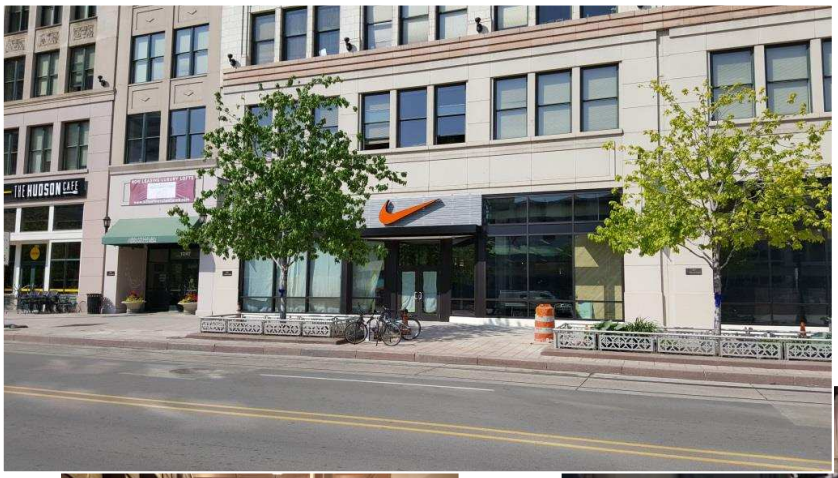
KORODUR TXPK
EP-primer

load-bearing, cementitious sub-base
compressive strength ≥ 30 N/mm²
bond strength ≥ 1,5 N/mm

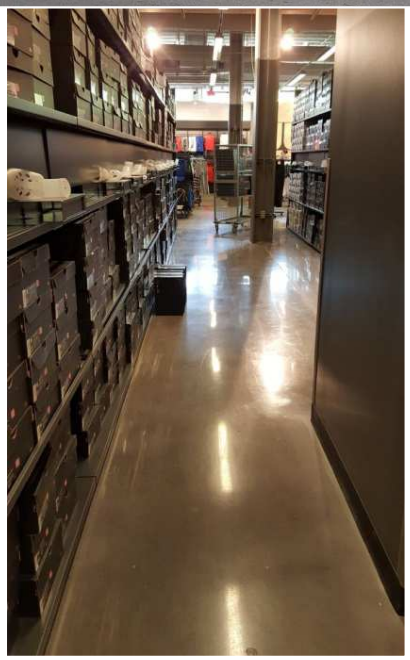


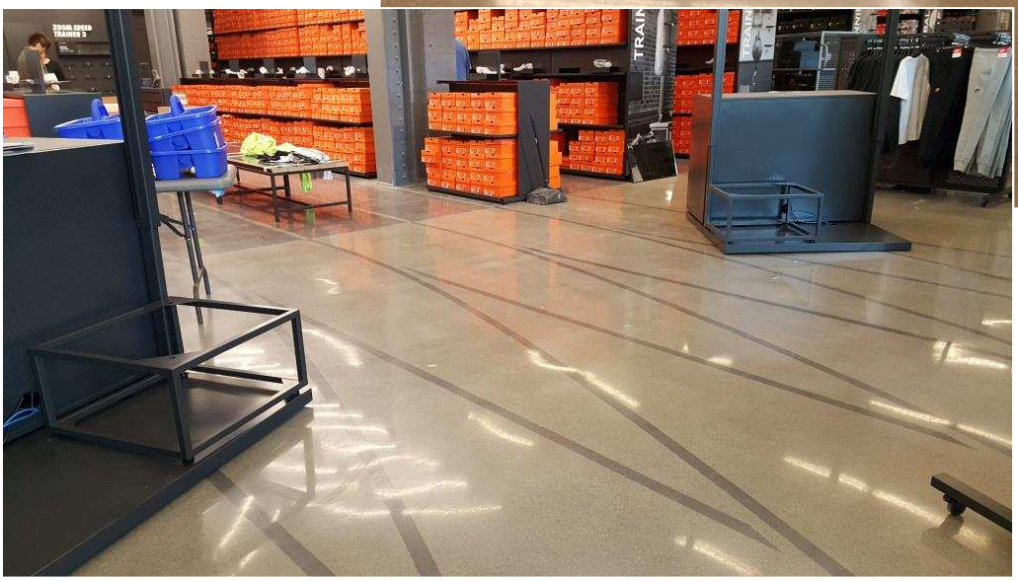
Under Armour,
Wisconsin, USA
650 m²
TRU PC
Color: Concrete optics
performance in 2016





NIKE Store, Detroit, USA
13.000 m²
TRU PC
Color: Concrete optics
performance in 2016





Office building,
Poznan, Poland
20 m²
TRU PC
Color: Concrete optics
performance in 2016

GENERAL HINTS

PRODUCTION OF CEMENTITIOUS KORODUR DESIGN FLOORS

PREAMBLE

These hints may serve all parties involved in construction as a basis for the production of cementitious, coloured screeds (e.g. GRANIDUR, KCF and TRU Self-Leveling / TRU PC). These hints cover both the technical properties (see data sheets) on the one and the relevant processing-referred properties on the other hand.
Due to different production variants respectively due to the use of natural raw materials, deviations of the finished performances are possible. Such deviations, partly intended, cannot be completely excluded, however, they give the finished screed its characteristic optical appearance. Any decorative screed is unique!

PLANNING PRINCIPLES / SCOPE

The above products are factory produced dry screed mixtures, which in respect of their use are subject to DIN 18560 (all parts) respectively to DIN EN 13813.

FIELDS OF USE

Depending on the product, the flooring constructions qualify for many types of projects, e. g. in general residential construction, in offices and administration buildings and in particular in shopping business.

GENERAL PROPERTIES OF CEMENT SCREEDS

Cementitious screeds are flat structural components with minor thickness and large surface. Unfavourable site conditions and non predictable influences such as temperature, air draught, sun radiation may cause unforeseen/not wanted aspects, e.g. formation of cracks, bowl-formation. In particular the formation of cracks can have very different causes – they cannot be totally excluded.

Qualified work performance, however, may considerably reduce their number and expansion. Cracks contribute to the authentication of the floor and are not considered as depreciation of the creative design.

SURFACE CONDITION / OPTICAL APPEARANCE

- GRANIDUR, polished surface
- KCF, smoothed surface
- TRU Self-leveling, self-leveling, polished surface
- TRU PC, self-leveling, polished surface

Depending on the time of day, the incidence of light and position of the observer, decorative floor surfaces may appear differently.

The practical production of the floor on job site may show optical deviations which, however, are not considered as defect.
The different ways of processing (the type of sub-base, climate, working methods, pouring marks, streaks, colour differences, grinding marks, maintenance treatment etc.) give the decorative screed its typical appearance.

Hand samples can only serve as guiding example for the selection of the colour or give an idea of the design technique but cannot be taken as comparison to the produced floor area.

JOINT DESIGN

As concerns the joint design and wall connections the responsible planner has to design the suitable field sizes. As in many cases these are adapted to local geometrical conditions, we can only refer to the valid parts of the norms and standards.

DIN 18560-2 (screed on insulation layer), par. 5.3.3

DIN 18560-3 (composite screed), par. 4.4

DIN 18560-4 (screed on separation layer), par. 4.3

Independent from this, the use of joint profiles has proven as suitable joint design.

AFTER-TREATMENT

All surface-finished floors require protection by very thorough after-treatment. However, coloured floors which require a first maintenance treatment, must not be after-treated with curing agent. This would bear the risk of closing of pores. In such case suitable coverings, such as painter's cardboard, non-woven tissue or thin, tightly placed foil should be used.

FIRST MAINTENANCE TREATMENT AND ROUTINE CLEANING

To achieve a long-standing positive optical appearance of a decorative screed the first maintenance treatment and the routine cleaning are of utmost importance. As any cementitious system has a relatively open-pore surface, basic cleaning and first maintenance treatment is required before handing over (see data sheets).

KORODUR provides appropriate maintenance hints on request.

On the basis of these hints it is recommended to arrange a test area.

Further hints please take from the relevant product information, maintenance instructions and tender specifications.

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