

Bitumen thick coating

# PCI Pecimor® 2K

for external basement walls and foundations

# PCI®

Für Bau-Profis



With official test certificate for manual application and mechanical application by spray gun.  
CE approved.

## Fields of application

- For indoor and outdoor use on walls and floors.
- For construction and civil engineering.
- For application by hand and spray gun.
- For waterproofing structures and structural members to DIN 18195 for the conditions exposed to
  - DIN 18195-4 "Waterproofing against soil moisture and non-pressing seepage water on floor slabs and walls"
  - DIN 18195-5 "Waterproofing against non-pressing water on ceiling areas and in wet rooms, moderately used areas".
  - DIN 18195-6 "Waterproofing against standing seepage water".
- As waterproofing membrane to DIN 18533 in the water exposure classes W1-E, W2.1-E, W3-E and W4-E.
- For waterproofing against pressing water.
- For waterproofing structural members against waters aggressive to concrete in accordance with DIN 4030-1.
- For gluing HR foam insulation boards (perimeter insulation).
- Suitable for external, lamellar waterproofing of construction joints (max. open width 0.25 mm) in structural concrete elements against soil moisture and non-pressing water, occasionally standing seepage water and pressing water up to an immersion depth of 3 m. Also suitable for water change zones.

## Features and benefits

- Tested in accordance with EN 15814 and the test principles to issue the official test certificate for waterproofing buildings in the transition area to structural concrete members with high water penetration resistance and as waterproofing joints for structural concrete members with high water penetration resistance.
- Two components, rapidly rainproof due to fast curing.
- Radon barrier for healthy living.
- Filled with polystyrene, good workability.
- Good adhesion to dry and slightly moist substrates.
- Secure connection to water impermeable concrete.



Waterproofing an external concrete basement wall with PCI Pecimor 2K. Good workability due to polystyrene filling.

<b>CE</b>	
0432,0767	
<b>PCI Augsburg GmbH</b> Piccardstraße 11 D-86159 Augsburg	
13 DE063/03	
<b>PCI Pecimor 2K (DE063/03)</b> EN 15814:2011+A2:2014	
Polymer modified bituminous thick coatings used for the waterproofing of buildings EN 15814 CB2-W2A-C2A	
Reaction to fire	Class E/Efl
Watertightness	W2A
Crack-bridging ability	CB2
Water resistance	Pass
Flexibility at low temperature	Pass
Dimensional stability at high temperatures	Pass
Resistance to compression	C2A
Durability	Pass



## Features and benefits

- Water impermeable.
- Crack bridging for a high durability.
- Resistant to ageing, durable protection even after years.
- Solvent free, no damage to environment and operative by solvent vapours. No danger of fire or explosion. No vapours harmful to health.

## Technical data

### Material

Material base	
– fluid component	polymer bitumen emulsion with polystyrene particle filling
– powder component	dry mixture, cement-based
Components	two components
Consistency	pasty
Packaging size	30 l pail, stock no. 6277/7
Shelf life	min. 9 months; store dry and frost free, no permanent storage over +30°C
	Full pallets are non-stackable.

### Application

Consumption	The consumption amounts to approx. 1 l/m <sup>2</sup> and mm wet layer thickness. The indicated layer thickness must not be exceeded by more than 50%.			
Area of application / water exposure class	wet layer thickness	dry layer thickness	consumption	30 l pail covers
– DIN 18195-4 Waterproofing against soil moisture and non-standing seepage water on floor slabs and walls	approx. 4 mm	≥ 3 mm	approx. 4 l/m <sup>2</sup>	approx. 7,5 m <sup>2</sup>
– DIN 18195-5 Waterproofing against non-pressing water on ceiling areas and in wet rooms, moderately used areas	approx. 4 mm	≥ 3 mm	approx. 4 l/m <sup>2</sup>	approx. 7,5 m <sup>2</sup>
– DIN 18195-6 Waterproofing against standing seepage water (installation of PCI Gewebbahn required)	approx. 5 mm	≥ 4 mm	approx. 5 l/m <sup>2</sup>	approx. 6 m <sup>2</sup>
– Waterproofing against pressing water, immersion depth ≤ 3 m (installation of PCI Gewebbahn required)	approx. 5 mm	≥ 4 mm	approx. 5 l/m <sup>2</sup>	approx. 6 m <sup>2</sup>
– DIN 18533 W1-E (soil moisture and non-pressing water)	approx. 4 mm	≥ 3 mm	approx. 4 l/m <sup>2</sup>	approx. 7,5 m <sup>2</sup>
– DIN 18533 W2.1-E (moderate exposure to pressing water)	approx. 5 mm	≥ 4 mm	approx. 5 l/m <sup>2</sup>	approx. 6 m <sup>2</sup>
– DIN 18533 W3-E (non-pressing water on ceiling covered with soil)	approx. 5 mm	≥ 4 mm	approx. . 5 l/m <sup>2</sup>	approx. 6 m <sup>2</sup>
– DIN 18533 W4-E (splash water at foundation base as well as capillary water in and under walls exposed to the ground)	approx. 4 mm	≥ 3 mm	approx. 4 l/m <sup>2</sup>	approx. 7,5 m <sup>2</sup>
– Perimeter insulation	–	–	approx. 2,5 l/m <sup>2</sup>	approx. 12 m <sup>2</sup>
Processing temperature (substrate and ambient temperature)	+5°C to +30°C (substrate temperature)			
Substrate condition	dry to damp			
Mixing ratio				
- fluid component	3 parts by weight			
- powder component	1 part by weight			

## Technical data

Mixing time	min. 3 minutes
Conveying units	Inotec: InoMAT M8; Wagner: PC 3; b&m: BMP 6; PFT: Swing M
Processing time*	approx. 60 to 90 minutes
Curing time* (at 5 mm wet layer thickness)	
- rainproof after	approx. 4 hours
- curing time	approx. 2 days
- can be exposed to water after	approx. 2 days
Temperature resistance (after curing)	-20°C to +80°C

\* At +23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given. Higher humidity increases the times given.

## Preparation of substrate

In case of waterproofing measures with PCI Pecimor 2K, the regulation DIN 18195 and "Richtlinie zur Planung und Ausführung von Abdichtungen erdberührter Bauteile mit kunststoffmodifizierten Bitumendickbeschichtungen" (Regulation to plan and implement waterproofing measures of structural members in contact with the ground with polymer-modified bitumen thick coatings) issued by Deutsche Bauchemie e.V. (German building industry) must be followed. Suitable substrates are structurally sound concrete, at least strength class C 12/15, plaster of mortar group C IV to EN 998-1, masonry to DIN 1053 made of brick, sand-lime brick, lightweight concrete and hollow concrete blocks, aerated concrete. The substrate must be structurally sound, mainly smooth and fine-pored in the surface. It must be free from honeycombs, voids, cracks and ridges,

dust, tar, pitch, forming oil and other residues which could impair adhesion. The substrate should be dry or just slightly damp. Edges should be broken. Covings (both horizontal and vertical) are to be rounded with PCI Polyfix Plus L, PCI Nanocret R2 or PCI Saniment DP, minimum radius 4 cm, or with PCI Pecimor 2K with a max. radius of 2 cm. In case of brick-built basements, in particular if the building is of cavity construction, the top of the basement masonry not covered by the basement ceiling must be protected from penetrating water before carrying out the waterproofing measures. This can be done e.g. by trowelling with PCI Barraseal or PCI Pecimor 2K after closing the openings in the head of the brickwork with cement mortar. It occurs again and again in the case of brick-built basements that, during the carcass phase, the bottommost course of the masonry gets completely soaked with water collecting on the floor slab

inside the basement. It is therefore required to apply an intermediate waterproofing layer with PCI Barraseal or PCI Seccoral to prevent this inadmissible soaking: Apply PCI Barraseal to the transition area floor slab/basement wall before forming the coving. This skim coat must be applied from the front end of the floor slab over the coving up to at least the top edge of the first course of the masonry preventing water from acting on the reverse side onto the PCI Pecimor 2K coating. A skim coat with PCI Nanocret or a render coat of mortar group CS II can be applied to level irregularities and to close mortar gaps, spallings or open butt joints > 5 mm. The materials used to prepare the substrate (e.g. for covings or intermediate waterproofing) must have completely cured before starting the waterproofing measures.

## Application procedure of PCI Pecimor 2K

**Always apply the coating to the side of the structure or structural member in contact with water!**

### 1 Mixing

#### 1.1 Mixing for manual application

Add powder component to the liquid component while mixing with PCI anchor mixer attached to a fast-speed electric drill (approx. 600 to 800 rpm). Mix for at least 3 minutes until a homogeneous, lump-free and pasty mixture is produced. Mix only as much PCI Pecimor 2K as can be applied within 60 to 90 minutes.

#### 1.2 Mixing for mechanical application by spray gun

Mix as described under 1.1 by adding 1 litre of clean water.

### 2 Priming

#### 2.1 On dry and damp masonry or plaster/render

Apply PCI Pecimor F, diluted 1 : 5 with water, to the substrate and allow to dry. No primer required on dust-free substrates.

#### 2.2 On concrete

Mix PCI Pecimor-Betongrund with water in a clean bucket, mixing ratio 1 : 9, and apply to the concrete substrate, prepared beforehand if required, using a trowel or spray gun. First coat of PCI Pecimor 2K must be applied within 30 minutes wet on wet, wet layer thickness approx. 2 mm.

### 3 Application

Two layers are always required. Apply PCI Pecimor 2K in two worksteps by trowel or mechanically by spray gun fully covering the entire area. Apply the first coat to a layer thickness of up to

maximum half of the wet layer thickness which is required for the conditions exposed to, ensure that the entire surface is covered. Waterproofing measures against pressing water and in accordance with DIN 18195-6 against standing seepage water as well as water exposure classes W2.1-E and W3-E to DIN 18533 require PCI Gewebbahn fabric sheeting to be integrated in the newly applied first layer overlapping by 10 cm. Allow the first coat to cure as long as necessary thus preventing it from being damaged by the second coat. In case of waterproofing measures in accordance with DIN 18195-4 the two layers can also be applied wet on wet.

**3.1** The application of PCI Barraseal is required for the foundation area before applying PCI Pecimor 2K (see detailed drawing "Waterproofing of foundation area of single-leaf masonry").

#### 3.2 Grouting

**3.2.1** Install PCI Pectape 250 over joints, e.g. separation joints between buildings, connections and areas susceptible to forming cracks. To do this apply approx. 2 mm of PCI Pecimor 2K to each side of the joint. Press PCI Pectape 250 into the fresh coating (do not use any pointed or sharp-edged tools), fit it into the joint and apply PCI Pecimor 2K over the edge zone until the required layer thickness is produced.

**3.2.2** Construction joints, up to a width of 0.25 mm, in structural members made of water-impermeable concrete according to DAfStb guideline (German

commission for reinforced concrete) can be waterproofed with PCI Pecimor 2K. The waterproofing layer must be applied to the side of the water-impermeable construction in contact with the ground and to both sides of the joint, minimum width 15 cm, minimum dry layer thickness  $\geq 4$  mm.

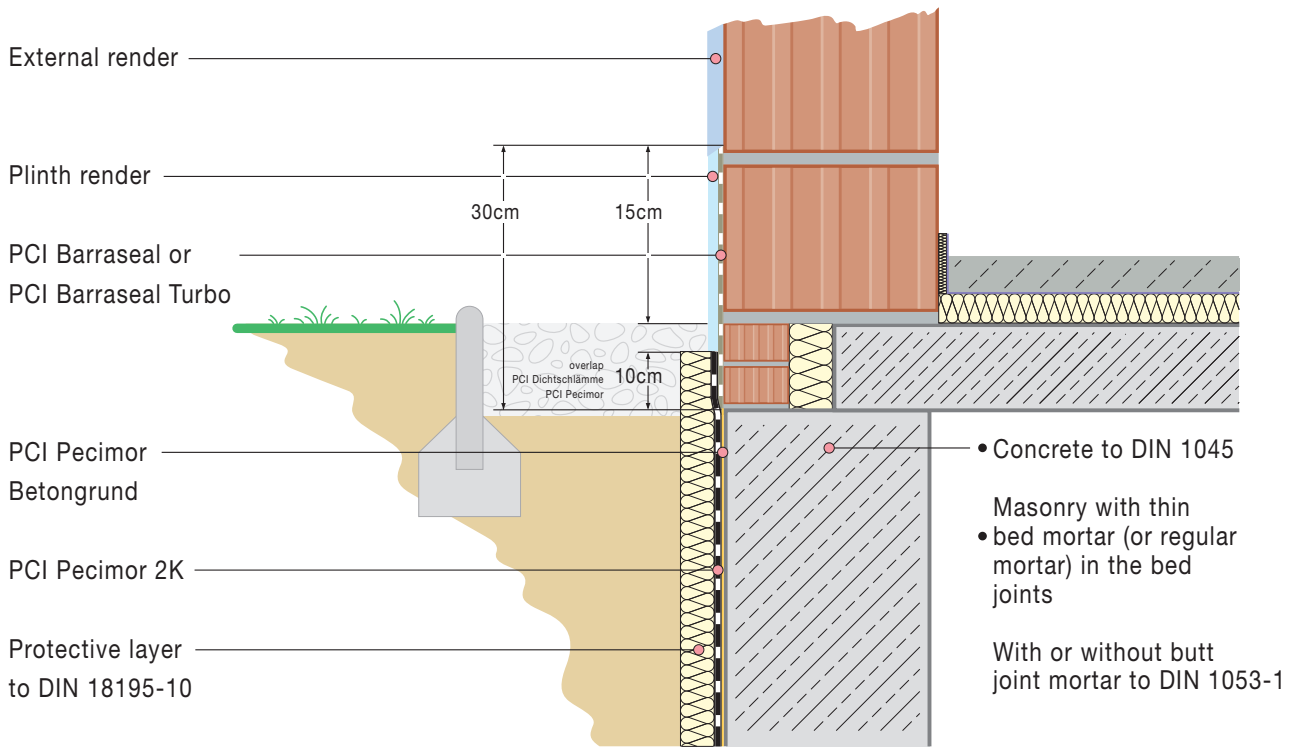
### 4 Protection

PCI Pecimor 2K areas are to be protected from being damaged, e.g. when backfilling the excavation pit, by positioning suitable drain boards. The excavation pit cannot be backfilled until the coating has sufficiently cured. Rubble, debris and coarse stones are not suitable as backfilling material. In case of horizontal surfaces, further layers such as screed on an isolating layer etc. can be applied to the PCI Pecimor 2K coating after approx. 2 days.

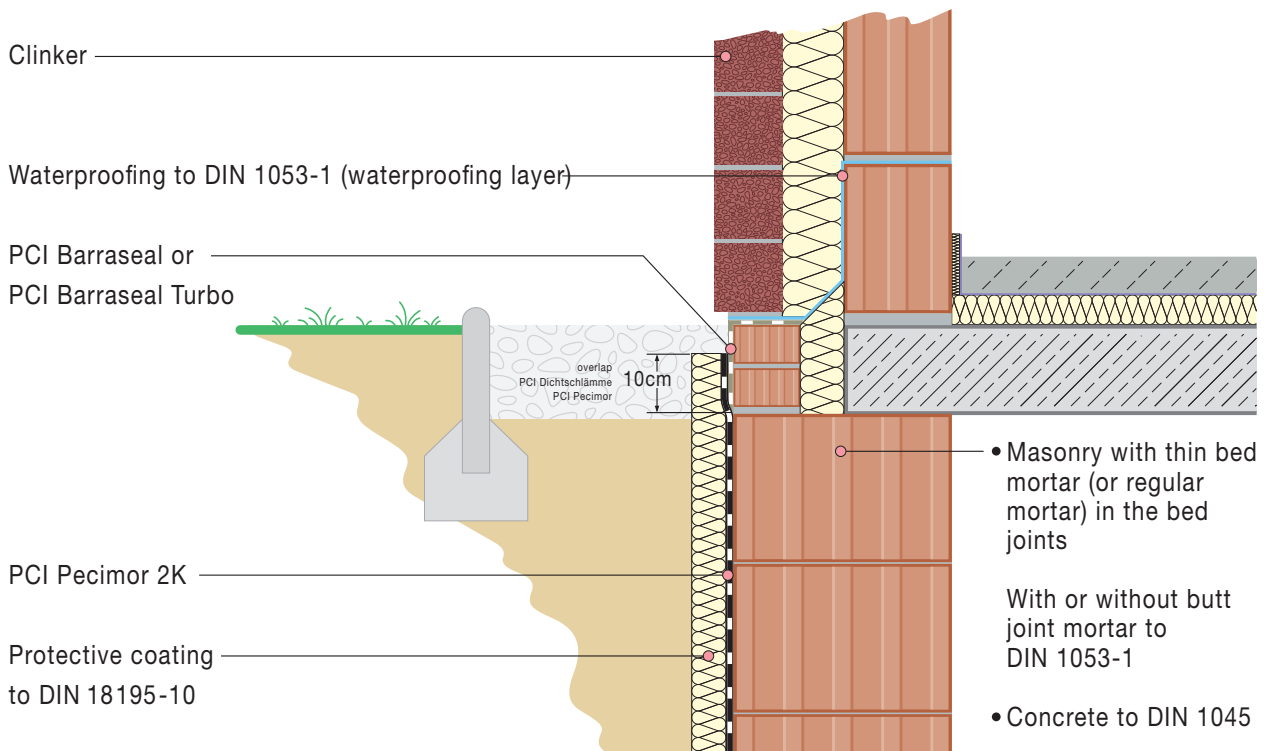
### 5 Perimeter insulation

Insulation boards or drainage boards (e.g. styrofoam or cellular glass) can be fastened to the cured PCI Pecimor 2K coating. In accordance with DIN 18195-4 approx. 5 to 8 dots of adhesive are applied to one board. In accordance with DIN 18195-6 the boards must be fully and void-free embedded in the adhesive. The butt joints of the boards must be protected from water. We recommend to glue boards with our adhesive for insulation boards PCI Pecimor DK.

**Waterproofing foundation area of single-leaf masonry**

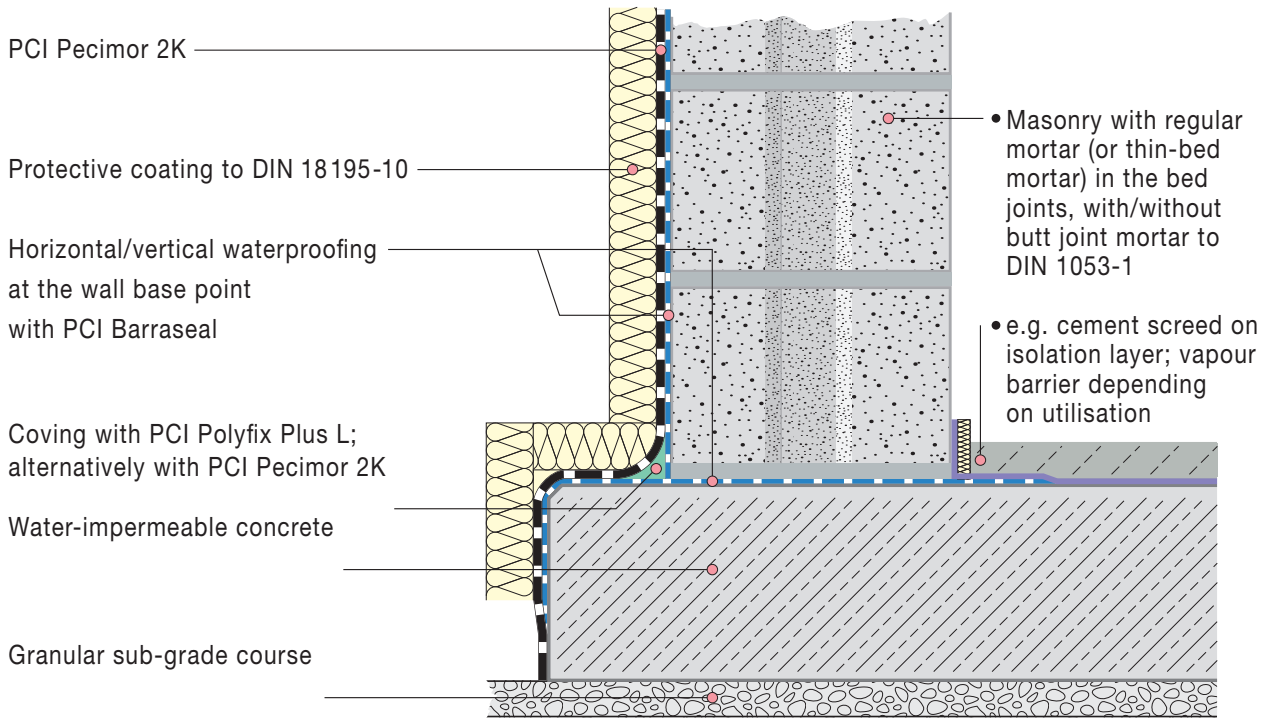


**Waterproofing foundation area of cavity walls**



**Waterproofing base point of masonry, floor slab made of water-impermeable concrete**

Connection to water-impermeable concrete floor slab to building regulation list A, part 2, running no. 2.39



## Please note

- Full pallets are non-stackable!
- Do not use PCI Pecimor 2K at substrate temperatures below +5°C or above +30°C.
- PCI Pecimor 2K is not suitable for potable water application and for waterproofing the inside of swimming pools.
- Moisture acting on the reverse side of the coating, e.g. in case of soaked masonry, is not permissible.
- Protective coatings must not be applied to the finished coating until the bitumen coating has completely cured.
- Lumped loads and line loads as well as loads affecting the functionality of the waterproofing measures by being indented should be prevented.
- Apply the coating to the side of the structure or structural member in contact with water.
- Apply mixed PCI Pecimor 2K within approx. 60 to 90 minutes.
- Avoid direct contact with joint sealants.
- The curing phase might retard - due to the high layer thickness - when forming the coving with PCI Pecimor 2K.
- Damages might occur if the coating has not completely cured and is exposed to driving rain.
- In case of hot weather we recommend to carry out waterproofing measures in the evening hours or to shadow the construction.
- Do not backfill excavation pits with rubble, debris or coarse stones. The coating might get damaged.
- Excavation pits with non-cohesive ground should be backfilled and compacted in layers to prevent settlements to the greatest possible extent.
- Technical workmanship and different substrate conditions might increase the given consumption quantities. The consumption quantities for the scratch coat are not considered here.
- The regulations DIN 18195 and DIN 18533 do not include polymer-modified thick bitumen coatings for waterproofing measures against pressing water (ground water). Waterproofing measures carried out not in accordance with DIN 18195 and DIN 18533 have to be agreed with the contractor.
- Clean tools with plenty of water immediately after use; when the product has cured it can only be removed by mechanical scraping.
- Shelf life: min. 9 months; store dry and frost free, no permanent storage over +30°C.

## Declaration of Performance

The Declaration of Performance can be downloaded as pdf file under [www.pci-augsburg.eu/dop](http://www.pci-augsburg.eu/dop).

## Information on the safe use

### ■ PCI Pecimor 2K,

#### fluid component

Treated goods in accordance with regulation (EU) No. 528/2012:  
Contains biocide (in-can preservative) N,N'-methylene bismorpholine.  
Keep out of reach of children. Wear protective gloves. Protect eyes where there is risk from splashing. In case of contact with eyes thoroughly rinse with water. If the irritation of the eyes does not ease off within a few minutes seek prompt medical advice. If medical advice is needed, have product container or label at hand.

### ■ PCI Pecimor 2K,

#### powder component

Contains cement: Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.  
Keep out of reach of children. Wear protective gloves (e.g. cotton gloves soaked in nitrile) and eye/ face protection. Avoid breathing dust. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water and put skin cream on (pH value approx. 5.5). IF SKIN IRRITATION OCCURS: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
Low in chromates.  
Giscode BBP 10

*For further information: see PCI Material Safety Data Sheet.*

## Disposal of emptied PCI sales packaging

PCI participates in an area-wide waste disposal system for sales packaging completely emptied. DSD – Duales System Deutschland (Dual System Germany, contract number 1357509) is

our partner for waste disposal. PCI sales packaging completely emptied can be disposed of via DSD in accordance with the symbol printed on the packaging.

## Services for architects and designers

Consultations at the workplace, supplementary information, testing certificates and sample descriptions can

be requested from professional advisors and at the company headquarters.



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zertifiziertes Qualitäts-  
managementsystem

In view of widely varying site conditions and fields of application of our products this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with PCI and possible resulting damages are in the sole responsibility of the customer. All descriptions,

drawings, photographs, data, ratios, weights a.o. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describe the quality of our products and services and are no warranty. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws. All transactions are subject to our Terms of Sale and Supply.

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German edition December 2017; the latest edition is always available on the Internet under [www.pci-augsburg.de](http://www.pci-augsburg.de)