



PCI product recommendations

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The right basis:

Reliable waterproofing in accordance with the standards for building elements in contact with the soil

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and are used for hobbies, for parties and as offices. A cellar can only be a living space where people feel comfortable if the walls are permanently dry – for a pleasant room climate. This means that the cellar must be protected against moisture from the surrounding soil. The most effective approach is to provide waterproofing where the wall comes into contact with water, i.e. on the exterior.

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PCI waterproofing in accordance with standards – yesterday, today and tomorrow

All PCI products for waterproofing elements in contact with the soil are in accordance with the requirements of the new standard DIN 18533. This means that you can work with reliable products with which you are familiar and which have been tested as a system at the same time as meeting the requirements of the standard.



What do you need to consider when waterproofing a building?

To prevent damage to buildings, especially to building elements in contact with the soil, waterproofing which is durably reliable must be provided. This calls for proactive, detailed planning and expert installation work. The waterproofing products used are a key factor in determining the quality of buildings. Only highquality tested product systems specially developed to meet the requirements for protecting buildings can guarantee that a building is protected against damage caused by moisture.

Why use PCI waterproofing products?

With more than 70 years of experience, PCI Augsburg GmbH is one of the leading manufacturers of construction chemicals products. The PCI brand has always stood for high product quality, highly competent advice and for a large number of groundbreaking product innovations such as the new cold applied self-adhesive waterproofing membrane PCI BT 21.

We make it as easy as possible for you to choose the appropriate waterproofing product. PCI focuses on holistic solutions – system solutions. The objective is not to have as wide a range as possible but to provide our customers with comprehensive support in the form of simple solutions which are durably reliable:

With perfectly harmonized PCI systems for the waterproofing of buildings, and a range that is as slim as possible and as wide as necessary.



Waterproofing solutions from PCI – the benefits at a glance:

- A slim product range for quick and easy selection
- 5 perfectly harmonized waterproofing systems for new and old buildings
- A wide range of applications
- Easy and convenient to use
- Tested product quality
- Systems meet the requirements of the new DIN 18533
- Competent specialist advice and technical service via phone/chat or on the construction site
- Decades of experience and comprehensive development know-how
- Nationwide availability through specialist dealerships
- Several awards from users and planners
- A large number of reliably dry cellars



PCI Pecimor[®] system

PCI Pecimor[®]: tried and tested, reliable and first-class

The PCI Pecimor® system, based on tried and tested thick bituminous coating technology ensures the waterproofing of building elements exposed to the soil in accordance with the applicable standard. Craftspeople, architects and engineers have opted for universal, reliable thick bituminous coatings from PCI for many years. Both PCI Pecimor® 1K and PCI Pecimor® 2K were developed for a wide range of applications in order to allow reliable planning. In addition, both products ensure extremely reliable application. They have been tested by independent institutes and resist attack by soft rainwater.

Benefits of PCI Pecimor[®] 1K and 2K at a glance:

- Easy product selection only two PCI thick bituminous coatings designed for extremely convenient application cover the entire range of waterproofing with polymer-modified thick bituminous coatings
- **Easy, effortless application** thanks to the homogeneous polystyrene filler of the two products, the material almost applies itself
- **High area yield** the good non-sag properties allow the products to be applied evenly to ensure the thicknesses required by the standard
- **Reliable coverage** the surface is already sealed after the first step as the first coat is already free from defects and watertight

Waterproofing in accordance with the standard using PCI Pecimor®

The designations of thick bituminous coatings have changed with the introduction of the new DIN 18533, Part 3 (Waterproofing with liquid-applied waterproofing materials). The former KMB materials (polymer-modified thick bituminous coatings) are now referred to as PMBC (polymer-modified thick bituminous coatings). The areas of application remain unchanged.



Easy, effortless application



High area yield



Can also be sprayed on

Areas of application of polymer modified thick bituminous coatings in accordance with DIN 18533-3

	PCI Pecimor [®] 1K	PCI Pecimor [®] 2K	Minimum dry film thickness
W1-E	•	•	3 mm
W2.1-E	-	•	4 mm + reinforcement fabric
W3-E	-	•	4 mm + reinforcement fabric
W4-E under walls	-	-	-
W4-E plinth waterproofing	•	•	3 mm



PCI Barraseal[®] Turbo: effective on plinths and wall surfaces

PCI Barraseal® Turbo is a real all-rounder. The mineral waterproofing product is a genuine alternative to bituminous products for use on building elements in contact with the soil. Flexible mineral waterproofing slurries are easy to apply and fast-setting. Especially for refurbishment work and on plinths, flexible mineral waterproofing slurries really come into their own as they will even adhere to old bituminous coatings.

Benefits of Barraseal® Turbo at a glance:

- Excellent adhesion not only to concrete but also to old bituminous coatings
- **Fast-setting** for working under pressure of time. Rainproof after 4 hours; construction pit can be backfilled after 6 hours
- **For multiple applications** for waterproofing walls and plinths, horizontal damp-proof courses and the bonding of insulation boards
- **Concrete grey color** the ultraviolet-resistant, weatherresistant waterproofing can be seamlessly continued above ground level, left uncovered, painted over or covered with render
- **Surface protection** suitable for chloride and concrete protection in accordance with DIN EN 1504 (OS 5b)
- **Radon-tight** for healthy building living environments. Supported by independent test certificate

Waterproofing in accordance with the standard using PCI Barraseal[®] Turbo

Following the introduction of the new waterproofing standard DIN 18533, Part 3 (Waterproofing with liquid-applied waterproofing materials), flexible mineral waterproofing slurries are becoming increasingly important. These products have been used for protection against pressing and non-pressing water for many years. For non-pressing water, flexible mineral waterproofing slurries are now covered by the standard and a separate agreement with the project owner is no longer required. In addition, DIN 18533 recommends flexible mineral waterproofing slurries for waterproofing under walls.



Ideal for waterproofing walls in new-built and refurbishment projects



Also suitable for waterproofing plinths and render



Easy to use: can be applied by trowel, brush, roller or spray

Areas of application of flexible mineral waterproofing slurries in accordance with DIN 18533-3

	PCI Barraseal [®] Turbo	Notes	Dry film thickness
W1-E	•	-	2 mm
W2.1-E	•*	Not covered by DIN 18533	2.5 mm
W3-E	•*	Not covered by DIN 18533	2.5 mm
W4-E under walls	•	-	2 mm
W4-E plinth waterproofing	•	-	2 mm

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* Use in the case of pressing water possible in accordance with general approval of the construction authorities; separate agreement with the project owner required.



PCI BT 21 system

Nothing sticks better than PCI BT 21

The PCI BT 21 system offers highly advanced waterproofing based on cold-applied, self-adhesive products. The key product in the system is the PCI BT 21 "all-weather" waterproofing membrane. It consists of a two-layer, tearresistant Valéron® special foil and a highly adhesive bitumen rubber waterproofing compound. This way, outside basement walls are durably protected against moisture. The waterproofing membrane is also suitable for L-shaped and Z-shaped waterproofing layers in double-leaf brickwork (see page 12-13).

Advantages of PCI BT 21 at a glance:

- **High adhesive strength** thanks to special adhesive compound for the durable protection of waterproofed surfaces
- Outstanding shaping properties clean application to corners and irregularities without creasing. Even at temperatures as low as -5 °C, external basement walls can be reliably waterproofed using PCI BT 21. The material remains supple and flexible
- Outstanding rapid solution defined coating thickness, rapid construction progress, no drying times - waterproofing is up to 50% faster than with thick bituminous coatings. This means that the cellar is protected against water and heavy rainfall and that the construction pit can be filled in immediately
- **Radon-tight** for the long-term use of cellars without any problems - confirmed by independent test certificate

Waterproofing in accordance with the standard using PCI BT 21

Cold-applied self-adhesive membranes were already included in the previous standard and are also covered by the new DIN 18533, Part 2 (Waterproofing with waterproofing materials in sheet form). Cold-applied self-adhesive membranes are approved for use with soil moisture, non-pressing water as well as for waterproofing plinths and under walls without soil pressure acting from the side. The sheets must have an overlap of at least 8 cm and the edges must be pressed firmly into place.



High adhesive strength



Outstanding shaping properties



Outstanding rapid solution

Areas of application of cold-applied self-adhesive membranes in accordance with DIN 18533-2

	PCI BT 21	Notes	Layer thickness
W1-E	•	-	One layer (one sheet thickness)
W2.1-E	-	-	-
W3-E	-	-	-
W4-E under walls	•	Without soil pressure from side	One layer (one sheet thickness)
W4-E plinth waterproofing	•	-	One layer (one sheet thickness)



Waterproofing of double-leaf brickwork PCI BT 21 for waterproofing double-leaf brickwork

Reliable basic waterproofing

In the case of double-leaf brickwork, there are two main types of waterproofing to be considered, the basic waterproofing of the floor slab and the Z-shaped and L-shaped waterproofing inside the brickwork. The purpose of the basic waterproofing is to protect the plinth against moisture in accordance with DIN 18533 W4-E. Either the bitumen free flexible mineral waterproofing slurry PCI Barraseal® Turbo or the cold-applied self-adhesive membrane PCI BT 21 may be used for this purpose.

Easy Z-shaped and L-shaped waterproofing

The subsequent Z-shaped and L-shaped waterproofing of the double-leaf brickwork provides protection against moisture inside the brickwork and in the structure behind the waterproofing. Z-shaped waterproofing applied between the two leaves of the brickwork ensures that any condensation is effectively and easily removed via the outer leaf. For this purpose, the waterproofing must bridge the gap between the two leaves, which is why sheet products such as PCI BT 21 are always used for this purpose. Thanks to its high flexibility and good adhesive properties, it is very easy to apply waterproofing of this type using PCI BT 21.

Waterproofing double-leaf brickwork in accordance with the standard

Basic waterproofing may be applied using cold-applied selfadhesive membranes or flexible mineral waterproofing slurries. Both types of product are approved for soil moisture and non-pressing water in plinth areas. In contrast, Z-shaped and L-shaped waterproofing (Fig. 4) can only be applied using cold-applied self-adhesive membranes. However, this type of waterproofing is not included in DIN 18533.



Basic waterproofing with PCI Barraseal® Turbo



Basic waterproofing with PCI BT 21 – partially waterproofed insulation element



Window detail

Areas of application of cold-applied self-adhesive membranes and mineral waterproofing slurries in accordance with DIN 18533

	PCI BT 21	PCI Barraseal® Turbo – Layer thicknes		
W1-E	•	•	2 mm	
W4-E under walls	Without soil pressure from side	•	2 mm	
W4-E foundation waterproofing	•	•	2 mm	

PCI BT 21 system for double-leaf brickwork

Advantages of basic waterproofing with PCI Barraseal[®] Turbo at a glance:

- **Reliable waterproofing** even on irregular substrates
- Easy-to-apply slurry for corners, edges and penetration points
- Flexible use for waterproofing under outer and inner leaves
- Suitable for plinth waterproofing can be applied seamlessly above ground level, left uncovered, painted over or covered with render



Advantages of basic waterproofing with PCI BT 21 at a glance:

- Reliable fast solution the building element is immediately protected against heavy rainfall
- Easy to process the back of the waterproofing membrane is self-adhesive
- No need to use different materials one product can be used both for the basic waterproofing and for Z-shaped and L-shaped waterproofing
- No drying time work can start immediately with the construction of the outer leaf on the PCI BT 21 membrane

Interior waterproofing/refurbishment of masonry

PCI Barra® system

PCI Barra® system Where exterior waterproofing is not possible

The PCI Barra® system consists of products applied to the interior surfaces of basement walls, providing a safe barrier against water penetration. Protection is provided by injecting special creams or liquids into the masonry. The PCI Saniment® products that also form part of the system prevent efflorescence and shape the surface. This way, a basement room can be prepared for use as a living space in only a few steps.

Reliable benefits – the PCI Barra® system:

- Slim range for easy use
- Easy-to-use products for reliable refurbishment of masonry
- **PCI Barra® Creme** the horizontal barrier for moisture saturation levels up to 95%; reduces the need for additional action
- **PCI Barra[®] Gisol** the reliable classical horizontal damp course for injection without pressure
- PCI Barra® Inject for filling cavities and closing drill holes
- PCI Saniment[®] 2 in 1 combined repair mortar and fairing coat

Waterproofing in accordance with the standard using PCI Barra®

Interior waterproofing products such as the PCI Barra® system are not covered by DIN 18533, which only deals with waterproofing for building elements in contact with the soil. This is why all the products in the PCI Barra® system are tested and certified in accordance with WTA. This provides security with respect to the functioning and durability of waterproofing when refurbishing old basement walls. For exterior waterproofing on foundations, flexible mineral waterproofing slurries in accordance with DIN 18533 are recommended.



Injection of a horizontal damp course using PCI Barra® Creme



Application of a damp course to provide protection against rising damp using PCI Barra® Gisol



Application of PCI Saniment® 2 in 1 as a combined repair mortar and fairing coat

Areas of application						
	WTA interior waterproofing	Plinth waterproofing in accordance with DIN 18533				
WTA 4-10 PCI Barra® Creme PCI Barra® Gisol		-	-			
WTA 2-9-04/D	PCI Saniment® 2 in 1 PCI Barraseal®	-	-			
W4-E under walls	•	PCI Barraseal® Turbo	Layer thickness 2 mm			
W4-E plinth waterproofing	•	PCI Barraseal® Turbo	Layer thickness 2 mm			





PCI Polyfix[®] plus L for fast installation work above and below ground

Plinth waterproofing (W4-E) with mineral waterproofing slurry



Stipple coat



PCI Saniment[®] HA

sulphate-resistant bonding agent PCI Saniment® 2 in 1

Waterproofing of building elements in contact with the soil **Comparison of old** and new standards

Old and new requirements for the waterproofing of building elements in contact with the soil (DIN 18533):

Valid version of Ö-Norm 3692 - Planning and implementation of waterproofing for buildings.

Previous exp accordance v covered by c	osure classes in vith DIN 18195 or areas onstruction regulations	(waterproofing of building elements in contact with the soil)				
Standards	Areas of application	Water exposure class	Description	PCI products in accordance with standard		
DIN 18195-4	Soil moisture	W1.1-E	Non-standing: Soil moisture and non-pressing water on walls and floor slabs in contact with the soil with a strongly permeable soil	 PCI Pecimor[®] 1K PCI Pecimor[®] 2K PCI BT 21 PCI Barraseal[®] Turbo 		
DIN 18195-4	Non-standing seepage water	W1.2-E	Non-standing with drainage: Non-pressing water on walls and floor slabs in contact with the soil with less permeable soil with drainage Austria: in accordance with Ö-Norm 3692 (non-pressing water) KMB in accordance with EN 15814	 PCI Pecimor[®] 1K PCI Pecimor[®] 2K PCI BT 21 PCI Barraseal[®] Turbo 		
DIN 18195-6	Standing seepage water and pressing water	W2.1-E	Pressing water Situation 1: Moderate exposure to pressing water with accumulated water up to 3 m and installation in the soil to a depth of 3 m Situation 2: Moderate exposure to pressing water with groundwater up to 3 m and any depth of bonding in soil Situation 3: Moderate exposure to pressing water with flood water up to 3 m and installation in the soil to a depth of 3 m	• PCI Pecimor [®] 2K Note: PCI Barraseal [®] Turbo only possible for pressing water in accordance with flexible waterproofing slurry test principles. Separate agreement required.		

The new waterproofing standard has been in force since July 2017 and has replaced all parts of the old waterproofing standard DIN 18195. In addition to bituminous waterproofing products, which were already covered by the previous standard, the new standard also includes flexible mineral waterproofing slurries.



DIN 18533 applies to the waterproofing of wall and floor surfaces in contact with the soil, wall cross sections and plinth areas of above-ground structures as well as buried underground structures in open pits.

e ir	with DIN 18533 a contact with the soil)	
	Description	PCI products in accordance with standard
	Non-pressing water on slabs covered by soil, depth of accumulation 10 cm	• PCI Pecimor [®] 2K Note: PCI Barraseal [®] Turbo only possible for pressing water in accordance with flexible waterproofing slurry test principles. Separate agreement required.
	Spray water and soil moisture at plinth: Situation: water at base of wall, single-leaf brickwork, with basement	 PCI Pecimor[®] 1K PCI Pecimor[®] 2K PCI BT 21 PCI Barraseal[®] Turbo
	Capillary water in and under walls	 PCI Barraseal[®] Turbo PCI BT 21 (without soil pressure from side)

Exterior waterproofing of surfaces exposed to soil Substrate preparation and detail solutions



Pre-treatment required depending on structure/condition

Condition of substrate	Pre-treatment
Dusty, dirty	Sweep off, remove dust
With mortar burrs	Remove burrs
With frost or ice	Thaw and allow to dry
Inside and outside edges	Outside edges must be beveled, inside edges should be rounded
Condition of surface	Pre-treatment
Width > 5 mm (e.g. mortar accumulations, open joints)	Rendering (with thin mortar or leveling compound) -> e.g. PCI Nanocret® R2
Width \leq 5 mm and surface profiling	Seal and level with waterproofing slurries or a scratch coat, e.g. with PCI Barraseal [®] or PCI Nanocret [®] R2
Mortar contamination (e.g. render)	Inspect to ensure that the mortar is sufficiently strong and to identify any cavities. Sweep off render that releases sand using a hard brush. Remove any brittle render and replace if necessary
Old black coatings of coal tar pitch	Remove without residue
Old bituminous coatings	Clean and roughen mechanically and then remove dust, e.g. using PCI Barraseal® Turbo

Exterior waterproofing of surfaces exposed to soil Waterproofing / concave moldings (PCI Polyfix[®] plus L) and waterproofing of footings (PCI Barraseal[®])

Sloping wedges and waterproofing/concave moldings

Before applying a waterproofing product, it may be necessary to install sloping wedges or waterproofing/concave moldings. In accordance with DIN 18533, waterproof mortar is especially well-suited for waterproofing/concave moldings.

PCI Polyfix® plus L is waterproof, sulphate-resistant and fastsetting. As a result, the cementitious leveling layer can be installed immediately before the waterproofing product is applied, without any waiting time.

- Sloping wedges with thicknesses between 2 and 50 mm can be constructed using non-sagging PCI Polyfix® plus L
- Waterproof/concave moldings using PCI Polyfix[®] plus L can be easily shaped and smoothed using a trowel or brush

Footings with PCI Barraseal[®] rigid slurry

During construction of a building skeleton, masonry on the floor slab or at the footing of the waterproofing is often saturated with moisture. In order to ensure secure bonding to building elements in contact with the soil, the waterproofing product must be allowed to dry thoroughly. If the masonry is already saturated with moisture, an intermediate layer of PCI Barraseal® or PCI Barraseal® Turbo must be applied. When this has cured, bituminous or cold-applied self-adhesive membranes may be safely applied.

- Can be applied by brush, trowel and spray gun; easy to apply to any substrate
- Will also dry on moist substrates
- Provides a durable seal on the side exposed to and away from water
- Sulphate-resistant and suitable for service with drinking water



Installation of a waterproof concave molding with PCI Polyfix® plus L



Moist masonry in a cellar



Intermediate waterproofing layer with PCI Barraseal®

Exterior waterproofing of surfaces exposed to soil Waterproofing with full-length windows

At least at its base, a full-length window element interrupts the waterproofing of the building. It is therefore important to provide reliable waterproofing around full-length window elements. This calls for materials which effectively bond to the elements on the one hand and have flexible properties on the other hand. In addition, materials which are ultraviolet resistant or can be covered by mineral coatings must be used in the visible area of the plinth. The flexible mineral waterproofing product PCI Barraseal® Turbo meets all these requirements.

Advantages of PCI Barraseal® Turbo:

- Proper connection to the plinth zone, in accordance with DIN requirements
- Good adhesion, reliable application to large surfaces as well as to corners and niches
- Ultraviolet resistant, homogenous grey color;
 PCI Barraseal[®] Turbo does not need to be coated or painted
- The crack-bridging properties of the flexible mineral waterproofing slurry ensure extremely reliable use
- Good adhesion; bonds durably to waterproofing tapes and black coatings



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Connection to window element using PCI BT 42 fixing tape



Transitions between PCI Barraseal® Turbo flexible mineral waterproofing slurry, waterproofing tape and window element

In order to bridge gaps and to provide additional protection against fatigue caused by thermal expansion and contraction, waterproofing tapes must be used for the connection of fullength door and window elements. The waterproofing tapes are intended to prevent moisture from running down between the waterproofing and the window element. For the connection of the tapes, the window must be sanded and cleaned. The self adhesive tape PCI BT 42 is then bonded to the prepared window element and covered with PCI Barraseal[®] Turbo. As an alternative, the waterproofing tape PCI Pecitape[®] 250 may be bonded directly to the prepared window element using PCI Barraseal[®] Turbo flexible mineral waterproofing slurry.

Note:

Connection to full-length windows represent a special design which must be separately agreed with the owner or architect.

Exterior waterproofing of surfaces exposed to soil Waterproofing with full-length windows and double-leaf brickwork

Before the window element is installed, Styrodur strips must be positioned on the basic waterproofing (see pages 12 to 13) to the left and right of the window opening. The strips should be positioned as near as possible to the window opening by agreement with the window contractor. After installing the window, make sure that the waterproofing can be connected to the window element. In view of its adhesion and its bridging properties, the cold-applied self-adhesive waterproofing membrane PCI BT 21 is outstandingly well-suited for use in these applications.

If we take a look at the transition from the interior, it becomes clear that waterproofing is needed between the insulating element and the floor. Three different methods may be used here:

Variant 1

Full coverage with PCI BT 21.

The cold-applied self-adhesive membrane bonds both to the insulating element and to the sheet which has already been applied to the floor slab.

Variant 2

Waterproofing with PCI BT 42 self-adhesive tape.

Variant 3

Waterproofing with PCI Pecitape® 250 and PCI Barraseal® Turbo.

Note:

In order to ensure good adhesion, this variant can only be used if PCI Barraseal[®] Turbo has already been used for the basic waterproofing.



Waterproofing of insulating element from the exterior



Insulating element protected against moisture from the back



Variants 2 and 3: window openings waterproofed using PCI BT 42 tape or PCI Pecitape[®] 250 in combination with PCI Barraseal[®] Turbo are easy to plaster over and ensure good adhesion

Exterior waterproofing of surfaces exposed to soil Further detail solutions for successful waterproofing

Structural joints in buildings:

Waterproofing with liquid-applied polymer-modified thick bituminous coatings and mineral waterproofing slurries

Apply the first layer of PCI Pecimor® 1K/2K or PCI Barraseal® Turbo to the primed surfaces. For secure waterproofing of the structural joints, PCI Pecitape® 250 waterproofing tape must be inserted into the layer before it dries. At least 10 cm of the tape on each side of the joint must be covered by the waterproofing layer. Then apply a second layer of waterproofing to the edges of the tape and the first layer to obtain the layer thickness required by DIN 18533.

Waterproofing with cold-applied self-adhesive membranes

Apply the PCI BT 21 sheets up to the joint and press the edges firmly into place. Apply a 30 cm wide strip of PCI BT 21 in a centered position over the joint. To ensure reliable waterproofing of the joint, this area must be covered with a second layer of PCI BT 21.



Waterproofing with PCI Pecimor® 1K/2K, PCI Pecitape® 250 sealing tape and PCI Pecimor® F primer

Note:

These solutions assume that the structural joint is positioned on a continuous floor slab. Joints without a continuous floor slab represent a special solution and require appropriate design work.

Building foundations: plinth areas and ground level

To provide protection against spray water around ground level at the transition to the cellar waterproofing, we recommend waterproofing with PCI Barraseal[®] Turbo flexible mineral waterproofing slurry. The waterproofing should cover an area of about 30 cm above and below ground level. This area can subsequently be painted over or covered with render.



Transition to a multiple-service entry point waterproofed using PCI Barraseal® Turbo



Installation of PCI Pecimor® 2K on a flange

Penetrations through waterproofing

The waterproofing of a building can only be as strong as its weakest joint. It is therefore especially important to ensure proper transitions to a flange at points where the waterproofing is penetrated. During refurbishment work on old buildings, flanges for transitions are rarely available. Special attention to the effective waterproofing of penetration points is required in the case of new buildings. Many local authorities have bylaws with requirements of this type. The additional cost of designing and installing such transitions is insignificant compared with the possible cost of damage if these requirements are not observed.

If modern flanges such as those produced by Hauff are used, PCI Pecimor[®] 1K/2K, PCI Barraseal[®] Turbo as well as PCI BT 21 can be effectively connected. For this purpose, the flange must be slightly roughened and then cleaned. The waterproofing materials can then be applied to the flange direct without any further priming. For liquid-applied materials, PCI Gewebebahn reinforcement fabric can be used as reinforcing insert to improve crack bridging.



PCI Pecimor® DK for bonding insulation boards into place on thick bituminous coatings and cold-applied self-adhesive membranes



Design defect in waterproofing above ground level



Waterproofing applied using PCI Barraseal® Turbo around ground level may be left exposed, painted over or covered with render

Bonding of insulation boards

PCI Pecimor[®] DK guarantees secure bonding of insulation boards. The advantage is that the material absorbs all water and dries rapidly.

While conventional thick bituminous coatings require long drying periods or never dry completely, the construction pit can already be filled after 6 hours with this fast-setting insulation board adhesive.

Note:

Insulation boards must not be bonded into place until the waterproofing has dried thoroughly.

In the case of pressing water (W2.1-E), insulation boards must be bonded over their entire surface.

Product overview Waterproofing products for buildings



	Primers				Liquid-applied waterproofing products			Mortar for waterproofing/ concave moldings	Insulation board adhesive		
Use in system	PCI Pecimor [®] Betongrund	PCI Pecimor [®] F	PCI Gisogrund°404	PCI BT 26	PCI BT 28	PCI Pecimor [®] 1K	PCI Pecimor [®] 2K	PCI Barraseal [®] Turbo	PCI Barraseal [®]	PCI Polyfix [®] plus/plus L	PCI Pecimor® DK
							RPP RECEIPTION	PCT			
PCI Pecimor [®] system	Concrete primer	Multi-use primer				Waterproofing, moisture exposure class W1-E, W4-E	Waterproofing, moisture exposure class W1-E - W4-E	Foundation waterproofing	Protection against moisture from the back	Mortar for waterproofing/ concave moldings	Insulation board adhesive
PCI Barraseal [®] Turbo system			Primer					Waterproofing, moisture exposure class W1-E, W2-E, W4-E		Mortar for waterproofing/ concave moldings	
PCI BT 21 system				Summer primer	Winter primer			Plinth waterproofing			Insulation board adhesive
PCI BT 21 system – double-leaf brickwork				Summer primer	Winter primer			Plinth waterproofing			Insulation board adhesive
PCI Barra [®] system								Plinth waterproofing	Waterproofing slurry	Mortar for waterproofing/ concave moldings	
Properties											
Base material	Powder mixture	Bituminous	Polymer dispersion	Bitumen/ rubber emulsion	Rubber	Bituminous	2-component bituminous/cement	2-component cement dispersion	Cement dispersion mixture	Fast setting cement mortar	2-component bituminous/cement
Layer thickness		As a bituminous protective coating, two coats, 0.3 mm				Moisture exposure class W1-E, W4-E Dry film thickness at least 3 mm	Moisture exposure class W1-E, W4-E Dry film thickness at least 3 mm Moisture exposure class W2.1-E, W3-E Dry film thickness at least 4 mm	For building waterproofing (W1-E, W4-E) about 2 mm dry film thickness	For soil moisture at least 2 mm, for pressing water at least 3.5 mm dry film thickness		Combed on, approx. 10 mm or spot bonding
Rainproof after	Wet in wet	2 hours	3 hours	1 hour	+23 °C = 30 minutes down to -5 °C = 2 hours*	5 hours	4 hours	4 hours	1 day		4 hours
Can be loaded after		1 day	3 hours	1 – 3 hours	See above	4 days	2 days	3 days	3 days		4 hours
Codes and standards			GEV-EMICODE EC 1 PLUS			DIN 18533 moisture exposure class W1-E, W4-E	DIN 18533 moisture exposure class W1-E, W2.1-E, W3-E, W4-E General approval by construction authorities in accordance with PG-ÜBB and PG-FBB Radon tightness test	DIN 18533 moisture exposure class W1-E, W4-E DIN 18535 moisture exposure class W1-B, W2-B General approval by construction authorities in accordance with PG-MDS Surface protection in accordance with EN 1504, Rill Sib OS 5b Radon tightness test	DIN 18533 moisture exposure class W1-B, W2-B general approval by construction authorities in accordance with PG-MDS Test for service with drinking water in accordance with DVGW W347/W270		
Consumption	Approx. 100 – 250 ml/m² (powder, approx. 30 g/m²)	Undiluted approx. 250 – 300 ml/m ² diluted 1:5 approx. 50 ml/m ²	Approx. 100 to 200 ml/m ²	> +5 °C = approx. 150 g/m ² < +5 °C = approx. 300 g/m ²	Approx. 120 to 300 g/m ²	Wet film thickness 4 mm (dry film thickness 3 mm) approx. 4.0 l/m ²	Moisture exposure class W1-E, W4-E Wet film thickness 4 mm (dry film thickness 3 mm) approx. 4 l/m ² Moisture exposure class W2.1-E, W3-E Wet film thickness 5 mm (dry film thickness 4 mm) approx. 5 l/m ²	For 2 mm dry film thickness 2.5 kg/m ² ((W1-E, W4-E, and surface protection OS 5b) For 2.5 mm dry film thickness 3.2 kg /m ² (pressing water in accordance with PG-MDS)	For 2 mm dry film thickness 3.2 kg powder/m ² (soil moisture) For 3.5 mm dry film thickness 5.6 kg powder/m ² (pressing water in tanks)	2.9 kg powder/m" (with 3-4 cm radius)	3.5 – 4.5 kg/m²

* Please observe working time window stated in technical data sheet

Product overview Waterproofing products for buildings



	Cold-applied self-adhesive membranes			Fixing tape	Sealing tape	Fabric sheets	
Use in system	PCI BT 21	PCI BT 23	PCI BT 45 inside corner	PCI BT 46 outside corner	PCI BT 42	PCI Pecitape [®] 250	PCI Gewebebahn
	RIP	RICE RECEIPTION					
PCI Pecimor [®] system					Edge and connection tape	Structural joints	Waterproofing, class WI-W4
PCI Barraseal® Turbo system					Edge and connection tape	Structural joints	
PCI BT 21 system	Waterproofing, moisture exposure class W1-E, W4-E	Waterproofing, moisture exposure class W1-E, W4-E	Corners	Corners	Edge and connection tape		
PCI BT 21 – system double-leaf brickwork			Corners	Corners	Edge and connection tape		
Properties							
Base material	Tear-resistant Valéron® special foil with a bitumen rubber adhesive compound	Tear-resistant Valéron® special foil with a bitumen rubber adhesive compound	PVC molding	PVC molding	Self-adhesive butyl sealing tape with nonwoven plastic backing on one side	Special rubber tape with nonwoven backing	Tear-resistant glass fibre reinforcement fabric
Layer thickness	1.5 mm	1.5 mm	1 mm	1 mm	0.8 mm	0.5 mm	Weight per unit area
Properties	Can be used immediately	Can be used immediately	Prefabricated corner for immediate, reliable bonding to PCI BT 21 and PCI BT 23	Prefabricated corner for immediate, reliable bonding to PCI BT 21 and PCI BT 23	Can be used and covered immediately		For insertion in the first layer of PCI Pecimor [®] 2K, mesh spacing 7 x 7 mm
Codes and standards	DIN 18533 moisture exposure class W1-E, W4-E DIN EN 13969, DIN EN 14967 radon tightness test	DIN 18533 moisture exposure class W1-E, W4-E DIN EN 13969, DIN EN 14967 radon tightness test					DIN 18533 moisture exposure class W2.1-E



PCI Barra® system – waterproofing interior and masonry

Properties			
Base material	aterial Silane cream		Special cement mixture
Duration of exposure	Approx. 36 hours	At least 24 hours	
Can be backfilled / curing completed	After 36 hours	After 24 hours	7 days
Codes and standards	WTA code of practice "Masonry injection for protection against capillary moisture"	WTA code of practice "Masonry injection for protection against capillary moisture"	
Consumption	Wall thickness: 12 cm – approx. 150 ml/m 24 cm – approx. 310 ml/m 36 cm – approx. 400 ml/m	Approx. 14 to 23 l/m ² of wall cross section	About 1.2 kg of dry mortar per litre of cavity to be filled



Properties			
Base material	Lime/cement mortar mixture	Lime/cement mortar mixture	
Thickness of render	Single layer: min. 20 mm, max. 40 mm Two layers: min. 10 mm per layer, max. total 40 mm	Bonding slurry	
Drying time	About 1 day per millimeter of thickness		
Can be worked on after	May be felted down after 2 to 3 hours	After about 12 hours	
Codes and standards	WTA code of practice 2-9-04/D	WTA code of practice 2-9-04/D	
Consumption	Approx. 0.95 kg/m ² and mm of layer thickness	Approx. 5 kg/m ² (in grid) Approx. 8 kg/m ² (full coverage)	

Please observe working time window stated in technical data sheet

rbishment mortar				
animent [®] 2 in 1	PCI Saniment [®] HA			



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