

**PCI**<sup>®</sup>

Für Bau-Profis

It's good

to pass on good values

Flexible tile adhesives from PCI. Strong, flexible, reliable.



A brand of  
**MBCC GROUP**



# Flexible tile adhesives



The PCI Flexmörtel® line at a glance:



PCI Flexmörtel®  
**S1**  
The all-rounder  
Pages 6-7



PCI Flexmörtel®  
**S1 Flott**  
The floor specialist  
Pages 8-9



PCI Flexmörtel®  
**S1 Rapid**  
The fast adhesive  
Pages 10-11



PCI Flexmörtel®  
**S2**  
The dependable adhesive  
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PCI Flexmörtel®  
**Premium**  
The outdoor specialist  
Pages 14-15

The PCI Flexmörtel® line

**The best generation of tile adhesives  
for any challenge.  
By professionals, for professionals.**

For decades, PCI has been a reliable supplier of innovative and efficient products of absolutely professional quality for customers from dealerships and the trades. It is not only the expertise of craftspeople that is passed on from generation to generation but also the knowledge that there are partners you can rely on. Partners who focus on current and future challenges and already have the ideal solutions ready now – like PCI.

Our claim:  
We develop the best tile adhesives for outstanding craftsmanship – and are always a step ahead of the steadily growing requirements faced by the building trades. As everyday work on site is more and more determined by tight time schedules, critical requirements, tight budgets and extremely

high quality and safety standards, the time is ripe for a new generation of flexible tile adhesives that outperform all the standards. This is the best generation ever of PCI Flexmörtel® flexible tile adhesives – modern times call for modern tile adhesives.

**The PCI Flexmörtel® line stands for:**

- Extreme flexibility – especially for work under pressure of time
- Maximum laying reliability – especially in critical cases
- High time savings – and therefore high cost savings
- Extremely convenient to use
- The ideal product for every challenge whether as an all-rounder or as a specialist product



It's good to pass on good values

## PCI flexible adhesives – setting the benchmark for tile adhesives for generations

# Generations

### 1950



PCI already launched the first cementitious tile adhesive on the market in the 1950s – PCI FT® Klebemörtel. At the time, this was a ground-breaking product and it remains a reliable companion for many tilers to this day.

### 1981



PCI invented PCI Flexmörtel® and revolutionized the tiling sector. When it was introduced in 1981, the first flexible tile adhesive for indoor and outdoor use was an absolute innovation. With the properties of this tile adhesive, which were unique at the time, PCI set new standards as regards flexibility on construction sites. Since then, the "Flexmörtel" name has been inseparably connected with the PCI brand and, in German, it has become almost a generic name for all flexible tile adhesives throughout the industry.

### The latest generation



To this day, PCI Flexmörtel® has remained a real classic and has become one of PCI's most successful products throughout the world – for good reason. Outstanding performance is still a characteristic of this product 40 years after it was introduced. However, the technical requirements and the needs of craftspeople have changed in the meantime. PCI has reacted proactively and developed a new generation of PCI Flexmörtel® adhesives with S1 and S2 technology – the best and latest generation of tile adhesives for any challenge, however severe.

#### The latest technology:

S1 and S2 technology from PCI combines very high adhesive tensile strength with extreme flexibility, avoiding stress between the substrate and the tiling.

The results are unparalleled reliability and outstanding performance even with critical substrates, extreme pressure of work, as well as difficult materials and formats. Cement screeds can be covered with tiles extremely fast, ensuring rapid construction progress and providing greater flexibility in everyday work – an advantage for any modern contractor.



The latest knowledge, sophisticated technology and about 40 years of flexible adhesive expertise go into every sack of the PCI Flexmörtel® line. Generations of tilers have placed their trust in this unbeatable combination when extreme flexibility and high performance are required under tiles and in their everyday work.

#### With the PCI Flexmörtel® line, you are on the safe side and remain flexible in any situation in your everyday work...

- **...with tight time schedules:** instead of waiting for 28 days, cement screeds can be tiled over as soon as they can be walked on (PCI Flexmörtel® S2) or when the residual moisture level falls to  $\leq 4\%$  CM (PCI Flexmörtel® S1). This speeds up progress, ensuring faster results and allowing more flexible site planning.
- **...with demanding requirements:** outstanding results even where the going gets tough with large-format tiles, critical substrates, high or low temperatures or extreme loads.
- **...with tight budgets:** not only is construction progress accelerated but tiling also becomes quick and easy. This is a source of satisfaction for both tilers and project owners.
- **...with complex projects:** if everything has to be finished at the same time, these products allow effective planning thanks to flexible timing and extremely reliable laying.







PCI Flexmörtel® S1

## The all-rounder

A strong tile adhesive that can be used in almost any application. PCI Flexmörtel® S1 is the all-rounder among the flexible adhesives – for indoor and outdoor use on walls and floors. Its special strength is the absorption of horizontal forces caused by temperature fluctuations or shrinkage, for example. For laying ceramic tiles and slabs on heated screeds, this is the perfect adhesive. Recently laid cement screeds can already be covered when the residual moisture level falls to  $\leq 4\%$  CM. Easy handling and significantly greater safety and flexibility for any construction site – no tiler can afford to ignore this all-rounder.

**NEW!**  
With improved  
processing  
properties



**For all ceramic coverings, indoors and outdoors, on walls and floors**



**Convenient working time and short setting time**



**Consistency can be varied in line with requirements**

**S1**  
TECHNOLOGY  
CT'  $\leq 4\%$  CM

Class  
**C2TE**  
**S1**  
TO  
EN 12 004-1



### Product features

- For multi-purpose use indoors and outdoors on walls and floors
- Flexible, compensates for expansion and contraction caused by temperature fluctuations as well as shrinkage
- For covering cement screeds with a residual moisture level of  $\leq 4\%$  CM
- Very good non-sag properties, even with heavy slabs
- Waterproof and temperature-resistant from  $-30\text{ °C}$  to  $+80\text{ °C}$



PCI Flexmörtel® S1 is convenient to apply and offers very good non-sag properties even when installing large-format fully vitrified tiles on walls.





# PCI Flexmörtel® S1 Flott The floor specialist

Large-format floor tiles are extremely popular – but laying them is and remains a challenge. These tiles present no problem for PCI Flexmörtel® S1 Flott – it can be used for laying not only large-format vitrified and fully vitrified tiles but also for coverings with thickness tolerances such as cotto or terrazzo slabs with a minimum of voids. It is also suitable for natural stones that are sensitive to staining. With adhesive bed thicknesses ranging from 1 to 15 mm, small irregularities in the substrate are no longer critical. Thanks to the convenient handling of this product, an adhesive bed can also be applied to large surfaces without any problems. The adhesive hardens to schedule, ensuring that the surface can be walked on rapidly and safely. PCI Flexmörtel® S1 Flott is also ideal for use on underfloor heating and for floors in industrial areas subject to high mechanical stress.

- 
**Also ideal for large-format floor tiles**
- 
**Consistency can be varied in line with requirements**
- 
**Extremely convenient to use**

**S1**  
TECHNOLOGY  
CT' ≤ 4% CM

Class  
**C2E**  
**S1**  
to  
EN 12 004-1



- Product features**
- For use indoors and outdoors on walls and floors
  - With non-sag consistency, prevents heavy and large-format flagstones from sagging in the adhesive bed
  - For covering cement screeds with a residual moisture level of ≤ 4 % CM
  - Extremely convenient to apply, long working time of up to 3 hours and fast setting time of about 6 hours
  - For leveling irregular substrates and for laying tiles with a back pattern in mortar bed thicknesses from 1 to 15 mm



PCI Flexmörtel® S1 Flott is ideal for laying large-format tiles. The floor specialist among the flexible adhesives can also handle gigantic tiles without any problems.





# PCI Flexmörtel® S1 Rapid The fast adhesive

When things need to go really fast, PCI Flexmörtel® S1 Rapid comes into its own. It combines all the benefits of PCI S1 technology with extremely fast setting and drying, allowing ceramic tiling to be walked on and grouted after about 3 hours. PCI Flexmörtel® S1 Rapid is ideal for use in a variety of applications and is an essential problem solver especially on time-critical projects or when rapid construction progress is needed. It is suitable for use indoors and outdoors on walls and floors and for the laying of natural stones.



**Can already be walked on and grouted after about 3 hours**



**Effective crystalline water binding**



**For all ceramic coverings, indoors and outdoors, on walls and floors**



## Product features

- For use indoors and outdoors on walls and floors
- Flexible, compensates for expansion and contraction caused by temperature fluctuations as well as shrinkage
- For covering cement screeds with a residual moisture level of ≤ 4 % CM
- Waterproof and temperature-resistant from -30 °C to +80 °C



Covering large areas fast – no problem with PCI Flexmörtel® S1 Rapid.







PCI Flexmörtel® S2

# The dependable adhesive

Double strength and outstanding quality make highly flexible PCI Flexmörtel® S2 the most powerful PCI Flexmörtel® ever. At 300 t /m², the adhesive tensile strength of this product outperforms the requirement for the highest classification by a factor of two. As a result, it offers maximum reliability and outstanding values for multi-purpose use on floors. It has been optimized for the absorption of horizontal forces and adds reliable, flexible performance even on critical, difficult substrates to the Flexmörtel® application portfolio. This way, ceramic tiles can already be laid after about 3 days – 25 days earlier than with conventional tile adhesives.



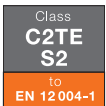
**Extremely reliable thanks to very high adhesive tensile strength and flexibility**



**Significant time saving – cementitious and heated screeds can already be covered after about 3 days**



**Stable mortar bed – no sagging of heavy floor slabs**



## Product features

- For use indoors and outdoors on walls and floors
- Especially well-suited for highly critical substrates
- For covering cementitious and heated screeds after about three days (as soon as they can be walked on)
- Good non-sag properties and extreme flexibility
- High adhesive tensile strength – twice the value required
- Waterproof and temperature-resistant from -30 °C to +80 °C



With highly flexible PCI Flexmörtel® S2, tiles and slabs can already be laid after 3 days.








# PCI Flexmörtel® Premium The outdoor specialist

**NEW**  
**formulation**  
 Improved  
 processing  
 properties

As the name implies, PCI Flexmörtel® Premium is the premium flexible adhesive in the PCI Flexmörtel® range. A special feature is its constant setting and working time. It does not matter whether it is cold or warm outside: PCI Flexmörtel® Premium sets just as fast as fast at 5 °C as at 20 °C. This feature as well as its effective protection against efflorescence and its short walk-on time make it the ideal outdoor adhesive for all ceramic and natural stone coverings.

-  **Constant setting and working times at cold and warm temperatures**
-  **Very high protection against efflorescence**
-  **Extremely convenient to use – working time about 90 minutes and can be walked on after about 4 hours**

**S1**  
 TECHNOLOGY  
 CT' ≤ 4% CM

Class  
**C2FE**  
**S1**  
 TO  
 EN 12 004-1

GEV-EMICODE  
**EC1**  
 PLUS  
 Very low emission



## Product features

- With non-sag consistency, prevents heavy and large-format flagstones from sagging in the adhesive bed
- Flexible, compensates for expansion and contraction caused by temperature fluctuations as well as shrinkage
- For covering cement screeds with a residual moisture level of ≤ 4 % CM
- Variable consistency – can be made up as a thin-bed, flowing-bed or medium-bed adhesive, as required
- Effective crystalline water binding



Outdoor tiling is especially safe and easy with PCI Flexmörtel® Premium, which is convenient to apply and not dependent on specific temperatures.



# The multi-use tiling system



High-performance PCI Flexmörtel® adhesives come into their own when used in a system. As part of the multi-use tiling system, they help ensure outstanding results in 90 percent of the applications found in homes.

The products have been carefully combined to form an intelligent system that allows reliable tiling even in situations that would otherwise be critical. The products selected meet the requirements of the various applications in the ideal way. They ensure reliable working when refurbishing floors and bathrooms, installing modern tiling in living areas and functional tiling in kitchens. At the same time, tilers can work conveniently, flexibly and reliably.

### Areas of application:

- All ceramic tiles irrespective of weight and shape
- On all conventional and heated screeds
- Residential buildings, especially in bathrooms

### System benefits:

- Multi-use system
- Optimized for reliable, convenient working, especially on small and medium-sized surfaces
- All products feature very low emissions



- 1 Primer**  
**PCI Gisogrund®**  
Wash primer/protective primer for walls and floors



- 2 Leveling compounds**  
**Floors: PCI Periplan®**  
Floor leveling compound under top coverings  
**Walls: PCI Pericret®**  
Leveling compound for floors, walls and soffits



- 3 Waterproofing**  
**PCI Lastogum®**  
Waterproof, flexible protective coating under ceramic coverings in showers and bathroom  
**PCI Seccoral® 1K**  
Flexible waterproofing slurry for waterproofing under ceramic coverings on balconies and terraces as well as in showers  
**PCI Seccoral® 2K Rapid**  
Fast-setting waterproofing slurry for waterproofing under ceramic coverings  
**PCI Pecitape® 120**  
Special waterproofing tape system for waterproof corner and perimeter joints



- 4 Tile adhesive**  
**PCI Flexmörtel® S1**  
Flexible tile adhesive for all ceramic coverings  
**PCI Flexmörtel® S2**  
Highly flexible tile adhesive for all ceramic coverings



- 5 Joint grout**  
**PCI Nanofug® Premium**  
Multi-use flexible joint grout for all tiles and natural stones  
**PCI Durapox® Premium (Multicolor)**  
Epoxy resin mortar for laying and grouting tiles



- 6 Sealant**  
**PCI Silcofug® E**  
Elastic joint sealant for indoor and outdoor use



- 1 Primer**  
**PCI Gisogrund®**  
Wash primer/protective primer for walls and floors



- 2 Leveling compounds**  
**Floors: PCI Periplan®**  
Floor leveling compound under top coverings  
**Walls: PCI Pericret®**  
Leveling compound for floors, walls and soffits



- 3 Tile adhesive**  
**PCI Flexmörtel® S1**  
Flexible tile adhesive for all ceramic coverings  
**PCI Flexmörtel® S2**  
Highly flexible tile adhesive for all ceramic coverings



- 4 Joint grout**  
**PCI Nanofug® Premium**  
Multi-use flexible joint grout for all tiles and natural stones  
**PCI Durapox® Premium (Multicolor)**  
Epoxy resin mortar for laying and grouting tiles








- 5 Sealant**  
**PCI Silcofug® E**  
Elastic joint sealant for indoor and outdoor use





PCI Flexmörtel® at a glance



The PCI Flexmörtel® line	PCI Flexmörtel® S1	PCI Flexmörtel® S1 Flott		PCI Flexmörtel® S1 Rapid	PCI Flexmörtel® S2	PCI Flexmörtel® Premium
						
	The all-rounder	The floor specialist		The fast adhesive	The dependable adhesive	The outdoor specialist
Substrates: floors						
Concrete floors older than one month, cement screeds older than 3 days, screeds with underfloor heating					■	
Concrete floors older than three months	■	■		■	■	■
Cement screeds ≤ 4 % CM, screeds with underfloor heating	■	■		■	■	■
Anhydrite and gypsum screeds ≤ 0.5 % CM	■	■		■	■	■
Xylolite screeds	■	■		■	■	■
Mastic asphalt	■	■		■	■	■
Particle board (at least 25 mm), with screws at intervals of 40 cm	■	■		■	■	■
Old tile adhesive residues	■	■		■	■	■
Old tiling	■	■		■	■	■
Substrates: walls						
Concrete older than three months	■			■		
Plasterboard, fiberboard walls	■			■		
Particle board (at least 19 mm thick), with screws at intervals of 40 cm	■			■		
Old tiling	■			■		
Properties						
Consumption per square meter (with 8 mm notched trowel)	2.8 kg	2.7 kg		3.1 kg	2.6 kg	2.1 kg
Adhesive bed thicknesses	1 to 10 mm	1 to 15 mm		1 to 10 mm	1 to 10 mm	1 to 20 mm
Working temperature	+5 °C to +25 °C	+5 °C to +25 °C		+5 °C to +25 °C	+5 °C to +25 °C	+5 °C to +25 °C
Working time	Approx. 3 hours*	Approx. 3 hours*		Approx. 40 minutes*	Approx. 90 minutes*	Approx. 90 minutes
Open time	Approx. 30 minutes*	Approx. 30 minutes*		Approx. 15 minutes*	Approx. 30 minutes*	Approx. 30 minutes
Can be walked on/grouted after	Approx. 8 hours	Approx. 6 hours		Approx. 3 hours	Approx. 12 hours	Approx. 4 hours
Can be fully loaded after	Approx. 3 days	Approx. 2 days		Approx. 1 day	Approx. 3 days	Approx. 1 day
Classification	C2 TE S1 in accordance with DIN EN 12004	C2 E S1 in accordance with DIN EN 12004		C2 FT S1 in accordance with DIN EN 12004	C2 TE S2 in accordance with DIN EN 12004	C2 FE S1 in accordance with DIN EN 12004
Sales units	20 kg sack, 5 kg bag	20 kg sack		20 kg sack, 5 kg bag	20 kg sack	20 kg sack

\* At +23 °C and 50 % relative humidity. These times will be shorter at higher temperatures and longer at lower temperatures.





Für Bau-Profis

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