Bitumen adhesive for insulation boards

PCI Pecimor® DK

for external basement walls and foundations

Features and benefits

- Two components, the water of the bitumen emulsion is completely absorbed by PCI Pecimor DK during the curing phase, therefore a reliable and fast curing of the adhesive underneath the insulation boards is guaranteed.
- Temperature resistant (after curing) from -20°C to +80°C.
- Resistant to ageing, durable protection below ground even after years.
- Chemical curing, also when hermetically sealed.
- Solvent free, no damage to the environment and operative by solvent vapours. No danger of fire or explosion. No vapours harmful to health.

Fields of application

- For walls and floors.
- For indoor and outdoor use.
- For full-surface bonding or dot bonding of insulation boards or drainage boards made of EPS, XPS or cellular glass, e.g. styrofoam or foamglass on absorbent and non-absorbent substrates, for bonding boards together and for the use as cell-filling coating of cellular glass boards.
- On dry and slightly damp substrates.
- On absorbent and non-absorbent substrates.

The styrofoam perimeter insulation boards are pressed into the adhesive bed of PCI Pecimor DK.
## Technical Data Sheet

**PCI Pecimor® DK**

### Technical data

#### Material

<table>
<thead>
<tr>
<th>Material base</th>
<th>polymer bitumen emulsion</th>
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<tbody>
<tr>
<td>- liquid component</td>
<td>dry mix, cement-based</td>
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<tr>
<td>- powder component</td>
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| Components | two components |
| Consistency | pasty |
| Density of mix | approx. 1.06 g/cm³ |
| Behaviour in fire to DIN 4102 (fire classification) | B2 |

| Packaging size | 28 kg bag (21 kg liquid component and 7 kg bag powder component) |
| Stock no. | 6278/4 |

| Storage | dry and protected from frost, no permanent storage over +30 °C |
| Shelf life | min. 9 months |

### Application

#### Consumption

- as primer (diluted with water 8:1) approx. 100 - 150 g of PCI Pecimor DK/m²
- as adhesive for insulation boards approx. 4.5 kg/m²
- as cell-filling coating of cellular glass approx. 1.5 kg/m²

| Working temperature | +5 °C to +30 °C (substrate temperature) |
| Curing time* (glued boards) | |
| - rainproof after | approx. 4 hours |
| - filling of excavation after | immediately |

| Substrate condition | dry to damp |

| Mixing ratio | 3 parts by weight |
| - liquid component | 1 part by weight |
| - powder component | |
| Mixing time | min. 2 minutes |

| Slake time | min. 2 minutes |

| Working time* | approx. 60 to 80 minutes |
| 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

Suitable substrates are structurally sound concrete, at least strength class C 12/15, plaster C IV to DIN EN 998-1, masonry made of bricks, sand-lime bricks, light-weight concrete and hollow concrete blocks, aerated concrete. Substrates waterproofed with PCI bitumen thick coating are also suitable. In case of other waterproofing materials, e. g. bitumen or plastic sheeting, the suitability of the substrate should be tested by doing a trial first. The substrate must be structurally sound and practically smooth. It must be free from dust, tar, pitch, forming oil, old paint or other residues which could impair adhesion. Edges must be broken.
**Application procedure**

**Gluing of drainage boards and insulation boards with PCI Pecimor® DK**

- In the case of soil moisture, drainage and insulation boards can be applied in the dot and dab method 30 cm above the assumed water level. In the case of non-percolating seepage water, pressing water or below the assumed water level, the insulation boards must be glued over the entire surface. The butt joints of the individual boards must be smoothed with PCI Pecimor DK.

1 **Mixing**

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 1 minute until a homogeneous, lump-free and pasty mixture is produced. Leave to stand for 2 minutes. Remix for at least 1 minute until workable.

2 ** Priming**

Add 3.5 litres of water to the ready mixed PCI Pecimor DK and remix thoroughly. Apply to the substrate using a paint brush or roller.

3 **Application of the adhesive**

3.1 **EPS and XPS boards with and without tongue**

Apply mixed adhesive PCI Pecimor DK to the substrate or insulation boards using a notched trowel (notch size approx. 10 mm). Use a medium-bed trowel for large-format boards from 60 cm x 100 cm upwards and a thickness of 5 cm. Apply the adhesive to the narrow sides of the board after the boards are installed. Fit boards into place and push tight. Smooth excess material at the butt joints.

3.2 **Foam glass boards**

Use mixed PCI Pecimor DK adhesive for gluing foam glass boards. Apply the adhesive to the reverse and narrow side of the boards using a notched trowel (notch size approx. 10 mm). Fit boards into place and push tight. Smooth excess material at the butt joints. In case of foam glass boards exposed to the ground, apply a closed-cell layer with PCI Pecimor DK to the surface of the board.

4 **Newly glued drainage boards or insulation boards must be protected from direct sunlight, driving rain and mechanical damage.**

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**Please note**

- Full pallets are non-stackable!
- Follow the installation instructions for drainage boards and insulation boards issued by the manufacturers.
- Gluing drainage and insulation boards with PCI Pecimor DK is no replacement for waterproofing a structure.
- Do not use PCI Pecimor DK at substrate temperatures below +5 °C or above +30 °C.
- Moisture acting on the reverse side of the adhesive, e.g. in case of soaked masonry, is not permissible.
- Apply mixed PCI Pecimor DK within approx. 60 to 80 minutes.

- In case of extreme heat we recommend to carry out the gluing works in the evening hours or to shadow the construction in accordance with the code of plastering practice.
- Avoid direct contact with joint sealants.
- Damages might occur if the coating has not completely cured and is exposed to driving rain.
- Do not backfill excavation with rubble, debris or coarse stones. The drainage and/or insulation boards might get damaged.
- The thermal expansion of the insulation boards must be considered (especially XPS from a thickness of 6 cm). Tensions caused by these expansions cannot be absorbed by the adhesive. Therefore backfill and compact excavations in layers with non-cohesive soil as soon as possible to practically prevent any settlements.
- The technical workmanship and different substrate conditions can increase the consumption quantities given.
- Clean tools with plenty of water immediately after use; when the material has cured it can only be removed by mechanical scraping.
- Shelf life: min. 9 months; dry, no permanent storage over +30 °C.
Information on the safe use

- **PCI Pecimor DK, liquid component**
  Contains: potassium hydroxide.
  Causes serious eye irritation. Causes skin irritation.
  Keep out of reach of children.
  If medical advice is needed, have product container or label at hand.
  Wear protective gloves and eye protection/face protection.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Call poison center or get medical advice/attention.
  IF ON SKIN (or hair): Wash with plenty of water and soap. If skin irritation occurs:

- **PCI Pecimor DK, powder component**
  PCI Pecimor DK 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 protection/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.
  The product is non-flammable. No special fire precautions are therefore required.
  Water hazard class 1 (self-rating).
  Giscode: ZP 1

For further information: see PCI Material Safety Data Sheet.

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