



The Chemical Company

# **BASF CONSTRUCTION CHEMICALS AUSTRALIA and NEW ZEALAND**

## **APPLICATION GUIDE for PCI NANOFLOTT LIGHT®**

### **IMPORTANT: READ THIS FIRST**

BASF Construction Chemicals does not warrant the performance of this product unless the instructions of this document and other related BASF Construction Chemicals documents are adhered to in all respects.

## 1. SURFACE PREPARATION

The substrate must be dry, sound and free from oil and dust.

### New Concrete

Minimum age of substrate:

-**PCI Novoment Z1** screed: 24 hours

-Cement screed: 7 days, concrete: 28 days

### Surface Irregularities

For the installation of ceramic tiles, the substrate must be flush.

### Priming

Very absorbent cementitious substrates should be primed with **PCI Gisogrund**, diluted 1:1 with water. Gypsum based floated screeds should be primed with undiluted **PCI Gisogrund**.

If time is a factor, prime cementitious and gypsum based substrates with **PCI Gisogrund Rapid**. Allow primer to dry.

Cementitious screeds must not have a residual moisture content of more than 4%.

## 2. APPLICATION

### Mixing of adhesive

1. Place gauging water, (approx. 7.8-9ltrs per 20kg bag), in a clean mixing container. Add **PCI Nanoflott Light** and mix with a suitable mixing paddle attached to an electric drill to achieve a plastic, lump-free consistency..
2. Leave to stand for approximately 3 minutes and then remix briefly.

### Laying tiles

1. Apply a scratch coat using the smooth side of the steel trowel.
2. Comb mortar onto the wet scratch coat with a thin-bed trowel, flowable adhesive trowel or other suitable notched trowel which practically guarantees void-free laying. Spread only as much adhesive as can be covered with tiles within the open time. Check open time by touching the adhesive bed with your fingertip.
3. Place tiles or stone into the adhesive bed with a twist and slide motion to ensure complete bedding.

4. Check suitability of the used notch size and/or full bedding, by picking up a newly laid tile.

### 3. NOTE

- **Elastic joints:** Movement joints, corner joints (floor/wall) and connection joints (fixtures/tiles, wood/tiles) should be sealed with the elastic joint sealant **PCI Silcoferm S**.
- Do not apply **PCI Nanoflott Light** at **substrate temperatures** below +5°C and above +25°C, as well as under exposure to extreme heat and strong wind.
- In case of expected night frost and/or permanent temperatures below +5°C within the next seven days after the installation, tiling outdoors is to be done with the fast-acting flowable adhesive **PCI Rapidflott**.
- The open time is reduced in case of absorbent substrates (recommendation: priming with **PCI Gisogrund**, diluted 1:1 with water).
- Wall tiling should be done with **PCI Nanolight** (white or grey).
- Never add water or dry powder to reconstitute a **PCI Nanoflott Light** mix which has already begun to set.
- A void-free bedding of tiles requires sufficient thickness of the adhesive bed. The required mixing ratio must be followed. The size of the notched trowel is dependent on the tile format and the irregularities of the substrate (trial laying).
- To achieve a practically full bedding of the tiles, it must be ensured that the tiles are laid in the adhesive bed with a twist and slide motion, enabling the reverse of the tile to be fully covered with adhesive.
- In case of increased requirements concerning flexibility, **PCI Nanoflott Light** can be modified with **PCI Lastoflex** (mixing ratio 4kg of **PCI Lastoflex** + 20kg of **PCI Nanoflott Light**). The modified adhesive corresponds to the classification C2E S2.
- Clean tools and mixing vessels with water immediately after use; once the product has cured it can only be removed by mechanical means.
- **PCI Augsburg GmbH does not use Nano particles in any of its products.**

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