

PCI LASTOFLEX HT

Polymer Modified Additive to mix with PCI bedding mortars

Fields of application

- For indoor and outdoor use.
- For walls and floors.
- To mix with PCI FT-Klebemörtel, PCI Midiment and PCI Midiment-Schnell. The mixing process provides a better flexibility of the adhesive.
- To mix with PCI Carralight and PCI Nanolight White when laying glass tiles and glass mosaic.
- To mix with PCI Nanoflott light and PCI Rapidflott when an increased flexibility is required for laying floor coverings.
- For heated screeds, balconies, terraces, precast concrete elements, facades and in swimming pools.
- To mix with PCI Fassadenkleber (adhesive for facades) for tile formats exceeding 30 x 30 cm.

Features and benefits

- Helps produce flexible tile adhesives which reduce elongations of the substrate and compensate tensions caused by variations in temperature.
- Good adhesion, improves adhesion to absorbent and non-absorbent mineral substrates.
- Waterproof, resistant to frost and weathering, for multi-purpose use indoors and out, for walls and floors.

Packaging

4kg pail.



Tile adhesives modified with PCI Lastoflex HT reduce elongations of the substrate and compensate tensions caused by variations in temperature.



PCI LASTOFLEX HT

Technical data

Material

Material basis	synthetic resin dispersion to mix with PCI tile adhesives
Components	1 part
Labelling to - Carriage of Dangerous Goods by Road, Rail and Inland Waterways - Regulation for hazardous substances For further information: see Health and Safety.	non hazardous no labelling requirement for this product
Storage	min. 12 months when stored in dry conditions and protected from frost, no permanent storage over +30°C

Coverage

4 kg PCI Lastoflex HT + 1 bag PCI bedding mortar cover approx.

	Notch size						
	4mm	6mm	8mm	10mm	6/12mm	8/18mm	13/20mm
PCI FT-Klebemörtel	15.0 m ²	10.8 m ²	8.0 m ²	6.3 m ²			
PCI Midiment				6.3 m ²		4.5 m ²	3.6 m ²
PCI Midiment-Schnell				5.3 m ²		4.3 m ²	3.1 m ²
PCI Carralight	14.0 m ²	9.5 m ²	7.0 m ²	5.8 m ²			
PCI Nanolight White	16.6 m ²	11.5 m ²	8.3 m ²	7.1 m ²			
PCI Nanoflott light		10.0 m ²	7.5 m ²	6.3 m ²	8.3 m ²	5.5 m ²	4.0 m ²
PCI Rapidflott		11.4 m ²	8.3 m ²	6.9 m ²	8.9 m ²	6.0 m ²	4.4 m ²

PCI LASTOFLEX HT

Application

Consumption	PCI FT-Klebmörtel + PCI Lastoflex HT	PCI Midiment + PCI Lastoflex HT	PCI Midiment-Schnell + PCI Lastoflex HT
Mixing ratio	25 kg PCI FTKlebmörtel + 4 kg PCI Lastoflex HT + 4.5 l water	25 kg PCI Midiment + 4 kg PCI Lastoflex HT + 1.75 l water	25 kg PCI Midiment- Schnell + 4 kg PCI Lastoflex HT + 1.75 l water
Thickness of adhesive bed	1 to 5 mm	5 to 15 mm	5 to 15 mm
Working temperature	+5°C to +25°C	+5°C to +25°C	+5°C to +25°C
Working time*	approx. 2 hours	approx. 2 hours	approx. 40 minutes
Slake time	approx. 3 minutes	approx. 3 minutes	approx. 3 minutes
Open time*	approx. 20 minutes	approx. 20 minutes	approx. 20 minutes
Curing times* - walkable after - groutable after - able to bear weight after	approx. 24 hours approx. 24 hours approx. 7 days	approx. 24 hours approx. 24 hours approx. 7 days	approx. 4 hours approx. 4 hours approx. 24 hours
Temperature resistance	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C
Classification to EN 12004	C2 TE S1	C2 E	C2 F S2

	PCI FT-Klebmörtel + PCI Lastoflex HT	PCI Midiment + PCI Lastoflex HT	PCI Midiment- Schnell + PCI Lastoflex HT	PCI Rapidflott + PCI Lastoflex HT
Mixing ratio	15 kg Carralight + 4 kg PCI Lastoflex HT + 3.7 l water	15 kg PCI Nanolight White + 4 kg PCI Lastoflex HT + 5.5 l water	20 kg PCI Nanoflott light + 4 kg PCI Lastoflex HT + 4.4 l water	25 kg PCI Rapidflott + 4 kg PCI Lastoflex HT + 1.8 l water
Thickness of adhesive bed	2 to 10 mm	1 to 10 mm	1 to 10 mm	2 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
Working time*	approx. 40 minutes	approx. 60 minutes	approx. 60 minutes	approx. 40 minutes
Slake time	approx. 3 minutes	approx. 3 minutes	approx. 3 minutes	approx. 3 minutes
Open time*	approx. 20 minutes	approx. 30 minutes	approx. 30 minutes	approx. 20 minutes
Curing times* - walkable after - groutable after - able to bear weight after	approx. 6 hours approx. 6 hours approx. 24 hours	approx. 10 hours approx. 10 hours approx. 2 days	approx. 10 hours approx. 10 hours approx. 2 days	approx. 5 hours approx. 5 hours approx. 24 hours
Temperature resistance	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C
Classification to EN 12004	C2 FT S2	C2 TE S2	C2 E S1	C2 F S2

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

PCI LASTOFLEX HT

Preparation of substrate

Minimum age of substrate:

- PCI Novoment Z1 and/or PCI Novoment M1 plus: 24 hours
- PCI Novoment Z3 and/or PCI Novoment M3 plus: 3 days
- Cement screed 28 days
- Concrete 28 days

The substrate must be sound, clean and able to bear weight.

Remove oil stains, bond-inhibiting residues and other contamination thoroughly. The substrate to be tiled must be plumb and flush according to DIN 18202.

Level substrate irregularities on walls with a levelling compound, concrete floors indoors with the self-levelling screed leveller PCI Periplan. Prime very absorbent cementitious substrates and aerated concrete with PCI Gisogrund, diluted 1 : 1 with water. Prime mastic asphalt screeds indoors and rough-ground anhydrite and/or gypsum-based floated screeds with undiluted PCI Gisogrund. For fast-track works prime cementitious and gypsum-based substrates with PCI Gisogrund Rapid. Allow primer to dry. Newly installed cement screeds must not have a residual moisture content over 4%, anhydrite and/or gypsum based screeds not more than 0.5% (measured with a CM meter).

Application procedure

Shake PCI Lastoflex HT briefly before use!

1. Put PCI Lastoflex HT in a clean mixing container and thoroughly mix with water (see mixing ratio).
2. Add the required PCI tile adhesive and mix with a suitable paddle (e.g. from Collomix) attached to an electric drill until free of lumps.

3. Leave to stand for approx. 3 minutes after mixing, then remix briefly.
4. Apply a thin scratch coat to the substrate using the straight edge of the trowel.
5. Comb the mortar on to the fresh scratch coat working in one direction if possible. Apply only as much mortar as can be covered with tiles within the open time (see Technical Data). Check the open time with your fingertip.
6. To achieve a practically void-free bedding in permanently wet areas, on balconies, terraces and facades lay tiles in the combined method (buttering-floating), i.e. tiles are additionally backbuttered with mortar. To achieve a practically void-free bedding on floors a flowable adhesive (PCI Nanoflott light or PCI Rapidflott) can be used as an alternative.
7. Press tiles into the mortar bed with a twist and slide motion and adjust to correct position. Heavy tiles can be wedged if necessary.

Please Note

- Do not apply bedding mortars modified with PCI Lastoflex HT at substrate temperatures below +5°C and above +25°C or under extremely warm and windy conditions.
- For the application of PCI tile adhesives the instructions in the technical data sheets apply.
- When laying ceramic exceeding a format of 30 x 30 cm on facades with PCI Fassadenkleber (adhesive for facades) the adhesive is to be blended in a mixing ratio 220 ml water + 160 g PCI Lastoflex HT + 1 kg dry mortar.

PCI LASTOFLEX HT

- When substrates are sensitive to moisture or very absorbent, e.g. aerated concrete or plaster follow the manufacturers' instructions and the German standard DIN 18157.
- The open time is reduced in case of absorbent substrates (recommendation: priming with PCI Gisogrund).
- For the installation of tiles and flags on heated screeds the requirements in the leaflet "Ceramic tiles and flags, natural stone and concrete stone on heated cement-based flooring constructions", issued by the Central Association of the German Building Business, must be followed.
- The German standard DIN 18157-1 applies when laying ceramic in the thin-bed method.
- Suitable tools are available from e.g. Collomix GmbH, Horchstraße 2, 85080 Gaimersheim/Germany, www.collomix.de.
- Clean tools and contaminated ceramic with water immediately after use, once the product has cured it can only be removed by mechanical means.
- Shelf life: min. 12 months when stored in dry conditions and protected from frost, no permanent storage over +30°C. Do not transport the material at temperatures below 0°C.

Health and Safety

General information on dispersion products

Do not allow PCI Lastoflex HT dispersion to dry on the skin. Remove dried dispersion with soap and water. Protect eyes where there is risk from splashing. In case of contact with eyes thoroughly rinse with water. If the eye irritation does not ease off within a few minutes seek prompt medical attention.

Giscode D1 PCI FT-Klebemörtel, PCI Midiment, PCI Midiment-Schnell PCI Carralight, PCI Nanolight White, PCI Nanoflott light and PCI Rapidflott contain cement. Contact with moisture or gauging water sets off an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes (e.g. eyes). Irritant to respiratory organs. Risk of serious damage to eyes, therefore avoid contact with eyes and prolonged contact with skin. Do not inhale dust. In case of contact with eyes thoroughly rinse with water and consult a doctor. In case of contact with skin change contaminated, soaked clothing immediately and wash skin with plenty of soap and water. Wear suitable protective gloves (e.g. cotton gloves soaked in nitrile) and safety goggles/face protection. If ingested seek prompt medical attention and show packaging or this product data sheet.

Keep out of reach of children.

Low in chromates.

For further information refer to the PCI Material Safety Data Sheet.

03/2011 BASF_CC-UAE

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.