

Wooden floor leveller

HSP 34

Fields of application

- For indoor use.
- Cementitious leveller for smoothing and levelling floors prior to the installation of
 - textile flooring and resilient flooring,
 - parquet flooring or laminate flooring to be glued.
- For producing smooth and level surfaces.
- For levelling
 - wooden floors
 - particle boards
 - OSB boards.
- Suitable for levelling concrete floors, cement screeds, calcium sulphate screeds, magnesite screeds, mastic asphalt screeds as well as ceramic tiles or coatings.
- Suitable as filler and performance grout for warm water underfloor heating system recommended for a thin-layer bedding.
- For layer thickness from 3 to 60 mm.
- Suitable for
 - underfloor heating
 - exposure to chair castors.

Features and benefits

- Very low emissions PLUS, GEV-EMICODE EC 1 PLUS R.
- Awarded the environmental label "Blauer Engel" due to low emissions (RAL UZ 113).
- Low in chromates; Giscode ZP 1.
- Dust reduced; reduced development of dust when opening, pouring and mixing the product.
- Fibre reinforced, reduces formation of cracks.
- Self levelling, can be applied with surface scraper in upright position.
- Pumpable.
- Walkable after approx. 3 hours.

Packaging size

- 25 kg PE lined heavy duty paper bag stock no. 4204/5



Technical data

Material

| | |
|--------------------------------------|--|
| Material base | special cement, mineral fillers, fibres, redispersible polymeric powder, additives |
| Components | single component |
| Consistency | powder |
| Colour | grey |
| Behaviour in fire to DIN EN 13 501-1 | A2 _{fl} - s1 (non combustible) |
| Shelf life | min. 6 months; store dry, no permanent storage over +30°C. Seal open sacks tightly and use up within a short time. |

Application

| | |
|-----------------------------------|--|
| Consumption | approx. 1.6 kg powder per m ² and mm layer thickness |
| Layer thickness | 3 to 60 mm |
| Ambient and substrate temperature | +10°C to +25°C |
| Mixing ratio | 25 kg of PCI HSP 34 + 5.5 to 5.75 l of water For partial quantities: 1 kg of PCI HSP 34 + 220 to 230 ml of water |
| Consistency (after mixing) | very fluid |
| Processing time* | approx. 30 minutes |
| Curing time* | |
| – walkable after | approx. 3 hours |
| – grindable after | approx. 1 day at 3 mm layer thickness |
| – able to be covered after | approx. 1 day at 3 mm layer thickness |

* 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

- The requirements in accordance with the German standards DIN 18 365 and/or DIN 18 356 apply.
- The substrate must be clean, dry, structurally sound, able to bear weight, free from oil and grease and other residues which could impair adhesion such as wax.
- Remove heavy contamination and residues and/or surfaces which could impair adhesion from concrete floors and screeds by mechanical means (shotblasting, grinding). Fill spalled areas and holes with PCI STL 39.
- Fill existing cracks in screeds with suitable PCI cast resins or PCI HSP 34 in combination with PCI Armiermatte GFM/GFS reinforcing fibreglass mesh.
- The residual moisture of wooden floors must not exceed the equilibrium moisture content of 6 to 12 mass percent.
- Particle boards or OSB boards may have a moisture content of max. 10%. The particle board (V 100 E1) or OSB board must be at least 25 mm thick when laid on floors and tightened to the substructure with screws at a distance of max. 40 cm. The perimeter joint must be at least 8 mm wide. The butt joints of the particle boards must be glued.
- Refasten loose or creaking boards with screws. Rough-grind wooden floors and thoroughly vacuum-clean. Fill joints, cracks and holes e.g. with acrylic sealant or with a base filler consisting of PCI STL 39 non-sag leveller *light* and PCI VG 2 multi-use primer added when mixing the product.
- Prior to the application of a fairing coat/floor leveller with PCI HSP 34, adhesive residues on the substrate must be rough-ground and removed before priming when parquet flooring or laminate flooring is to be glued.
- The tensile strength at the surface of the prepared areas must not fall below 1.0 N/mm² on average when parquet flooring or laminate flooring is to be glued.
- The leveller must be prevented from spreading into perimeter joints by taking suitable measures, e.g. perimeter insulation strips.

Priming

- Prime substrates with PCI VG 2 multi-use primer. Follow drying times of primer! See technical data sheets for detailed information.

Application procedure of PCI HSP 34

1 Fill cool gauging water in a clean mixing bucket, add PCI HSP 34 and mix for at least 3 minutes until lump free using a suitable paddle (e.g. from Collomix).

2 Pour PCI HSP 34 onto the cured primer and spread to a minimum layer thickness of 3 mm using a trowel or pin leveller.

2.1 Mix 25 kg of powder with 5.5 litres of water at layer thicknesses over 5 mm, spread with a pin leveller and de-aerate with a spiked roller.

2.2 Ensure a minimum layer thickness of 5 mm when installing PCI HSP 34 in combination with PCI Armiermatte GFM/GFS reinforcing fibreglass mesh! Pour PCI HSP 34 onto the PCI

reinforcing mesh laid on the dry primer, spread with a trowel (do not use a surface scraper!) and de-aerate with a spiked roller.

Please note

- Never add water or wet PCI HSP 34 to reconstitute a mortar mix which has already begun to set.
- It is important to adhere to the given amount of gauging water when mixing PCI HSP 34. **Additives are not allowed.**
- The thicker the layer the longer the waiting time until the substrate can be covered.
- **In combination with PCI Armiermatte GFM and GFS to obtain additional strength and increase the tensile strength, PCI HSP 34 can also be used as a bonded levelling compound on mixed substrates, substrates with existing cracks and dummy joints as well as substrates sensitive to forming cracks and/or substrates**

slightly vibrating or sensitive to vibrations. A minimum layer thickness of 5 mm is essential for these purposes.

- In case of untreated (raw) wooden floors, loose lay PCI Armiermatte GFM to the primed substrate overlapping by at least 1 cm. Apply PCI HSP 34 (minimum layer thickness 5 mm).
- When using PCI HSP 34 as a filler and performance grout for warm water underfloor heating systems the functional heating phase can be started approx. 1 day after filling/grouting with PCI HSP 34. Keep flow temperature of +25°C for 24 hours, the maximum admissible flow temperature for another 24 hours. The heat is then turned off. The flooring can be laid as soon as the

leveller has cooled down to room temperature after a few hours (e.g. overnight).

- Apply PCI VG 5 PU primer or PCI Epoxigrund and/or PCI Epoxigrund Rapid and contact the PCI technical help-line in case of an increased residual moisture content of cementitious substrates.
- A second layer, if required, is to be applied onto the first one while still moist. The application of PCI VG 2 multi-use primer is necessary if the first layer has already cured.
- Clean tools, machinery and mixing equipment with water immediately after use; when the product has cured it can no longer be removed with water.

Declaration of Performance

The Declaration of Performance can be downloaded as pdf file under www.pci-augsburg.eu/dop.

Information on the safe use

PCI HSP 34 contains cement:
Causes serious eye damage. Causes skin irritation.
Keep out of reach of children. Wear protective gloves (e.g. cotton gloves soaked in nitrile) and eye/face protection. 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 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.
The product is non-flammable. No special fire precautions are therefore required.

Provide for proper ventilation during and after processing. When using, do not eat, drink or smoke.

Water hazard class: 1 (self-rating)

Giscode ZP 1

For further information: see PCI Material Safety Data Sheet.

Disposal of product residues

Do not empty product/residues of material into drains, bodies of water or ground. Mix powder product residues

with water and allow to cure. Cured material residues can be disposed of as construction waste.

Disposal of emptied PCI sales packaging

Only completely emptied containers should be returned for recycling. PCI participates in an area-wide waste disposal system for sales packaging completely emptied. DSD – Duales System Deutschland (Dual System

Germany, contract number 1357509) is our partner for waste disposal. PCI sales packaging completely emptied can be disposed of via DSD in accordance with the symbol printed on the packaging.

Services for architects and designers

Consultations at the workplace, supplementary information, testing certificates and sample descriptions can

be requested from professional advisors and at the company headquarters.



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managementsystem

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