

# Multi-use leveller

# USP 32 S

## Fields of application

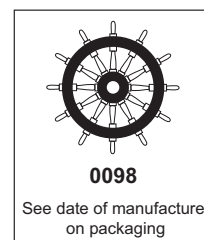
- For indoor use.
- Cementitious leveller for smoothing and levelling floors prior to the installation of
  - textile flooring and resilient flooring,
  - parquet flooring or laminate flooring to be glued.
- For producing smooth and level surfaces.
- For levelling
  - cementitious substrates
  - calcium sulphate screeds
  - magnesite screeds
  - mastic asphalt screeds
  - non-absorbent substrates.
- For layer thickness from 0.5 to 40 mm; for parquet flooring or laminate flooring to be glued from 2 to 40 mm; on mastic asphalt screeds from 2 to 5 mm.  
It is possible to blend PCI USP 32 S with silica sand when layer thickness exceeds 20 mm, but it is not necessary.
- Suitable for
  - underfloor heating
  - exposure to chair castors at a layer thickness of min. 1 mm.
- Suitable for the use on ships; meets the requirements of Marine Equipment Directive (MED) 96/98/EC.

## 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; low development of dust when opening, pouring and mixing the product.
- Self levelling, can be applied by surface scraper in upright position.
- Pumpable.
- Walkable after approx. 2 hours.

## Packaging size

- 25 kg PE lined heavy duty paper bag with integrated tear strip stock no. 4212/0



## Technical data

### Material

Material base	special cement, mineral fillers, redispersible polymeric powder, additives
Components	single component
Consistency	powder
Colour	grey
Shelf life	min. 6 months; store dry, no permanent storage over +30°C. Tightly seal open units and use up within a short period of time.

### Application

Consumption	approx. 1.5 kg of powder per m <sup>2</sup> and mm layer thickness
Layer thickness	0.5 to 40 mm; from 2 to 40 mm for parquet flooring or laminate flooring to be glued; from 2 to 5 mm on mastic asphalt screeds. Blending with silica sand (grain size 0.7 - 1.2 mm) is possible for layer thicknesses exceeding 20 mm (however blending is not necessary).
Ambient and substrate temperature	+10°C to +25°C
Mixing ratio	25 kg of PCI USP 32 S + 6 to 6.5 l of water For partial quantities: 1 kg of PCI USP 32 S + 240 to 260 ml of water. When blended with silica sand: 25 kg of PCI USP 32 S + approx. 8 - 10 kg of silica sand (grain size 0.7 - 1.2 mm) + approx. 6 l of water
Consistency	very fluid
Processing time*	approx. 30 minutes
Curing time*	
- walkable after	approx. 2 hours
- grindable after	approx. 6 hours
- ready to take further coverings at 2 mm layer thickness after	approx. 5 hours with vapour-permeable covering; approx. 12 hours with vapour-impermeable covering as well as parquet flooring or laminate flooring
- ready to take further coverings at 10 mm layer thickness after	approx. 24 hours
- ready to take further coverings at 20 mm layer thickness after	approx. 48 hours
- ready to take further coverings at 40 mm layer thickness after	approx. 72 hours
Suitable for gluing parquet flooring or laminate flooring	from 2 mm minimum layer thickness
Suitable for exposure to chair castors	from 1 mm minimum 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, old paint and other residues which could impair adhesion.
- Remove heavy contamination and residues and/or surfaces which could impair adhesion by mechanical means (shotblasting, grinding). Fill spalled areas and holes with PCI STL 39.
- Fill existing cracks with suitable PCI cast resins.
- PCI USP 32 S must be prevented from spreading into perimeter joints by taking suitable measures, e.g. perimeter insulation strips.
- Prior to gluing parquet flooring or laminate flooring: Grind down and remove adhesive residues on the substrate, apply primer, then apply a fairing coat/floor leveller with PCI USP 32 S.
- The tensile strength at the surface of the prepared area must not fall below 1.0 N/mm<sup>2</sup> on average when parquet flooring or laminate flooring is to be glued.

## Priming

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

## Application procedure

- 1 Fill cool gauging water in a clean mixing bucket, add PCI USP 32 S and mix for at least 3 minutes until lump free using a suitable paddle (e.g. from Collomix).
- 2 Pour PCI USP 32 S onto the cured primer and spread to the required layer thickness using a trowel or pin leveller. De-aerate with a spiked roller during the installation.

## Please note

- In case of an increased residual moisture in cementitious substrates use PCI VG 5 PU primer or PCI Epoxigrund 390 and/or PCI Epoxigrund Rapid and contact the PCI technical help-line.
- Never add water or moist PCI USP 32 S to reconstitute a mortar mix which has already begun to set.
- It is important to adhere to the indicated amount of gauging water when mixing PCI USP 32 S.
- The amount of gauging water is to be reduced to 6 litres in case of an increased layer thickness.
- The thicker the layer the longer the waiting time until the substrate can be covered.
- A second layer - if necessary - should be applied to the first layer while still moist. If the first layer has already cured prime with PCI VG 2 multi-use primer.
- **The minimum layer thickness must not fall below 2 mm all over the entire surface when gluing parquet flooring or laminate flooring to PCI USP 32 S.**
- Clean tools, machinery and mixing equipment with water immediately after use; when product has cured it can no longer be removed with water.

## Information on the safe use

PCI USP 32 S 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.*

## Declaration of Performance

The Declaration of Performance can be downloaded as pdf file under [www.pci-augsburg.eu/dop](http://www.pci-augsburg.eu/dop).

## 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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