

# EUROFLOOR PU CEM HF

## SYSTEM DESCRIPTION

**EUROFLOOR PU CEM HF** is a 4 component system is based on polyurethane dispersion, modified hardener, and active fillers. It has very high mechanical strength and chemical resistance. The great advantage of this system is also the resistance against temperature shocks. Thanks to these properties Eurofloor PU CEM system can be used in the most demanding conditions in every industry.

## APPLICATION

This heavy duty floor suits for extreme conditions, the possibility of thermal shock, high impact chemical agents or high mechanical loads. Typical applications are in the food industry such as slaughterhouses, brewery room, smokehouse, cutting and storage and processing of food (fruit, milk, juice) in place cleaning and filling the bottles, and in industrial kitchens and restaurants, cooling and in the industry pharmaceutical, chemical production facilities, blending, packaging premises handling, storage and areas for tanks. Eurofloor PU CEM HF has, thanks to it's combination of fillers, the resistance to high temperatures to 120 °C.

## ADVANTAGES

- anti slip, mat, seamless surface
- very high mechanical resistance
- very high chemical resistance
- liquid tide system
- excellent use in renovations of subfloors

## TECHNICAL DATA

Ingredients PU CEM HF of 1 complete package.: A - polyurethane dispersion B - isocyanides hardener C1 - active filler C2 - quartz filler Pigment paste	- 2,26 kg - 2,26 kg - 6,25 kg - 20,01 kg - 0,414 kg
Pot life after mixing components	15 - 20 min. <b>at 15°C</b> (depending on ambient temperature and humidity air)
Strength: - Compression - Flexural	> 50N/mm <sup>2</sup> > 15N/mm <sup>2</sup>
Abrasion resistance	4,8 m <sup>3</sup> / 50cm <sup>2</sup>
Resistance Temperature	-15 ° C min., max. 120 ° C
Hygienic Atest PZH	HK/B/1086/01/201
Min. temperature and max. temperature for application	From 5 °C till 35 °C
Suitability for use: - Light traffic - Medium traffic - Full load	- After 12 hours - 24 hours - After 48 hours

## SYSTEM EUROFLOOR PU CEM HF

THICKNESS	PRIMER	CONSTRUCTION
9 - 11 mm	<b>PU CEM L</b> 0,6 - 1 kg/m <sup>2</sup>	<b>PU CEM HF</b> 22 - 24 kg/m <sup>2</sup>

## APPLICATION

### SUBSTRATE PREPARATION

New substrate should be clean, well-connected and not crumble. If necessary, it should be prepared by the shot blasting machine to remove laitance and surface irregularities. The concrete should have a high strength (min. concrete B25 checked using the "pull off" > 1.5 MPa) and be free of contaminants such as: grease, oil, dirt, etc.

Substrates old require scarifying or grinding - depending on their condition. Strength of the substrate must be > 25 N/mm<sup>2</sup>. Cracks and cavities must be aligned before laying the floor. Sometimes it is necessary to use detergents eliminating grease and oil.

To prevent stress, which occurs during the curing of the materials, we advise to cut anchor grooves, with a depth and width about twice the thickness at which the PU CEM floor will be applied, using a diamond cutting wheel.

These anchor grooves must be applied on the places where the floor ends, for example around the area where the floor will be installed, 10-15 cm from the walls, around the drains, door entries ect.

### APPLICATION CONDITIONS

The room temperature and the ground should not be lower than +5 ° C.

Temperature of the material before applying it to: +10°C, max. +30°C. Above this temperature, due to the rapid reaction of the components, the material is not suitable for application. In the case of use of the product on a glass substrate, a ceramic or metal, use a special epoxy primer.

Following subfloors are suitable to apply Eurofloor PU CEM SL:

- Concrete
- SBR or Acrylic polymer-modified sand/cement fine aggregate screeds
- Granolithic concrete
- Mineral terrazzo surfaces
- Polyurethane cement floors
- steel
- Exterior grade plywood (25mm marine ply)

Following subfloors are definitive unsuitable :

- Unmodified sand/cement screeds
- Asphalt/bitumen
- Bricks or block pavements
- Magnesite
- Galvanized steel
- Stainless steel
- Copper
- Aluminium
- Wood (except exterior grade plywood)
- gas concrete
- Tiled floors
- Natural stone

## MIXING AND OF THE MATERIAL

LAYER 1 (right layer): primer coat

**PU CEM L** is mixed with all the three components together and applied with the help of a roller and squeegee, fine quartz is broadcast to stimulate the adhesion with the subfloor.

After hardening (8 hours) the surface is ready for the application PU CEM HF following the next procedure:

**Eurofloor PU CEM HF** is a material consisting of 5 components which are mixed together using a special mixer which is specially developed for this material (available at Eurostep office).

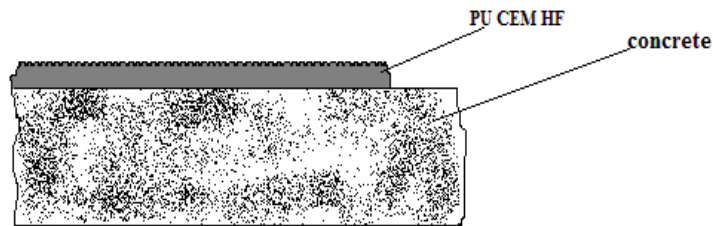
First we start with mixing A + B mix, then add the component C2 colour, mix to a uniform consistency and add the component C3 and C1.

Whole mix for about 2 minutes. After mixing, spread the material with a special rake which controls the thickness of the material.

Immediately the wet material is smoothed with a special trowels and when necessary rolled to get a smoother surface.

If in doubt, contact the customer service EUROSTEP.

## EUROFLOOR PU CEM HF SYSTEM LAYERS



## EXPANSION JOINTS

Existing construction joints in the substrate must be marked before laying EUROFLOOR PU CEM and after curing put back in the system.

## FLOOR MAINTENANCE

The floor must be cleaned frequently and regularly to prevent the build-up of dirt on the surface. It is recommended to use Alkaline detergent dissolved in water and cleaning under pressure. A specific cleaning advice you can look in our technical data for cleaning PU CEM floors.

## COLOURS

Colours – Other colours can be produced.



## STORAGE CONDITIONS OF COMPONENTS

- Store in tightly closed containers or containers
- Minimum storage temperature +5°C
- Do not allow contact with skin
- Avoid breathing vapours from heated material
- Do not allow the individual components to come in contact with acids, strong oxidizers and bases
- Material does not represent a hazard of self-ignition (explosion)

## TERMS OF GUARANTEE

This product must be installed by trained contractors. Supplier is not liable for errors resulting from the buyer failure to comply with this CARD SERVICES.

## NOTE

Direct effects of UV radiation on the system creates a stain on the floor without losing the technical properties.

## FIRST AID

<p><b>SKIN</b></p> <ul style="list-style-type: none"> <li>the contaminated clothing should be taken off</li> <li>the contaminated skin should be washed with water and a mild washing agent</li> <li>do not use solvent</li> <li>any wounds should be bandaged using a sterile bandage</li> <li>in the event of the continuation of symptoms a doctor should be contacted</li> </ul> <p><b>INHALATION</b></p> <ul style="list-style-type: none"> <li>after contact – the victim should be supplied with fresh air</li> <li>protect from heat loss and loss of consciousness</li> <li>lay down in a resting position</li> </ul>	<p><b>EYES</b></p> <ul style="list-style-type: none"> <li>the eye should be rinsed thoroughly with clean water</li> <li>the eyelid wash with plenty of water</li> <li>If the symptoms persist seek medical advice</li> </ul> <p><b>DIGESTIVE SYSTEM</b></p> <ul style="list-style-type: none"> <li>to cause vomiting</li> <li>drink plenty of water</li> <li>give activated carbon</li> <li>if the symptoms persist consult a physician.</li> </ul>
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## PROTECTION

- All workers should be trained in detail in the handling of polyurethane resins
- It is not permitted for persons with allergies to perform work near the resins
- Protective glasses and gloves should be used if there is a danger of splashing the emulsion
- After every contact of the emulsion, it is important to wash the hands with water and mild cleaning agents (this is especially important before meals). Do not use benzene, toluent or tetrachloride carbonate!
- Due to hygienic reasons, there should be no food or drink consumption in the workplace as well as no smoking of tobacco.

## ECOLOGICAL INFORMATION GENERAL

- The individual components and their uncured mixture can contaminate water.
- Do not let them reach ground water, water course or sewage system.
- Should always lead to a hardening of the remaining material.
- Cured product residues should be disposed of as artificial material.