

Diamonds - It's brilliant!

# HTC Superfloor™ Platinum



## Definition

The HTC Superfloor™ method involves finishing concrete floors mechanically by diamond grinding and/or polishing. HTC Superfloor™ is available in four different concepts, Platinum, Gold, Silver and Bronze.

This product data sheet describes HTC Superfloor™ Platinum.



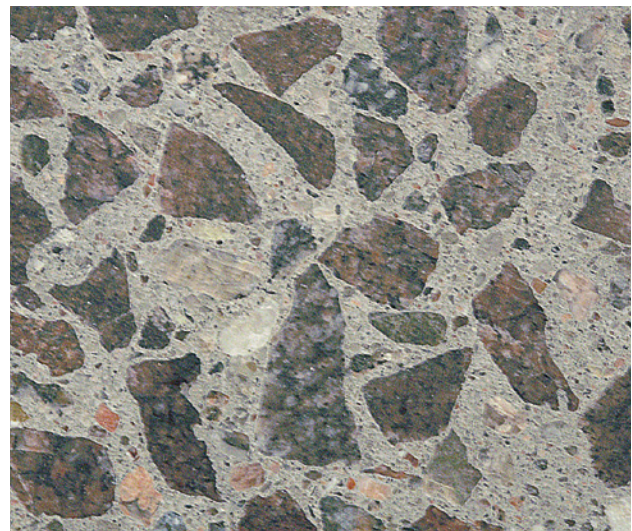
## HTC Superfloor™ Platinum

**Platinum** is the concept that gives the floor the best characteristics and it is the one we **recommend** in the first instance. It involves more grinding steps than in the other concepts. The result is an unbeatably durable floor. The method involves grinding away the concrete skin and exposing the underlying, stronger concrete, in the form of fine material, gravel and, where possible, aggregate. Due to the nature of the concrete construction, the larger aggregate may be exposed unevenly in the surface. Normally, 2 - 3 mm of the surface is ground away.

The floor is ground **smooth** and the **glossy** surface makes the floor easy to clean and more resistant to tire marks from forklifts and dirt. Moreover, the light is reflected in a pleasant way.

The floor is ground and polished according to a well established and tested method, using HTC's machines and HTC's diamond tools and in accordance with HTC's grinding guide.

The floor receives a completely smooth and glossy surface with many good qualities, both functionally and aesthetically.



# HTC Superfloor™ Platinum

## Areas of application

- On old as well as newly laid concrete
- Industry, workshops
- Warehouses
- Public spaces
- Shops
- Domestic environments



## Advantages

- Ecological - concrete consists solely of natural material
- Long service life and minimal maintenance give a low LCC cost (Life Cycle Cost)\*.
- Diffusion open
- No diffusion-tight surface layer
- Easy to clean
- Improved work environment thanks to lighter and cleaner premises
- Minimises harmful vibrations for forklift drivers
- Quieter traffic and reduced forklift maintenance
- Extremely resistant to tire marks from forklifts and other vehicles



## Tire marks from forklifts

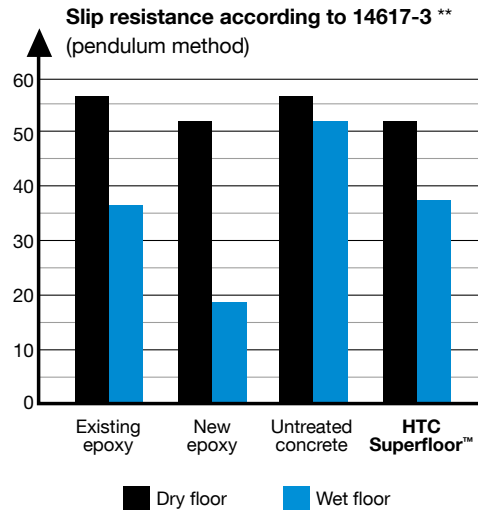
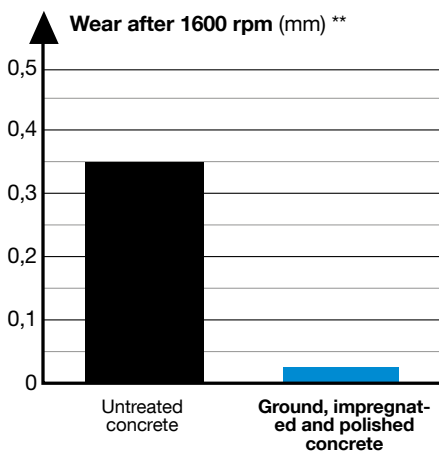
HTC Superfloor™ is an excellent surface for warehouses and logistic centres. Traditional resin flooring or untreated concrete floors soon suffer from tire marks from forklifts.

The picture on the right shows braking tracks from a forklift across a surface with both untreated concrete and HTC Superfloor™.



## Technical characteristics

HTC Superfloor™ has been tested for Wear Resistance and Friction at SP (Technical Research Institute of Sweden).

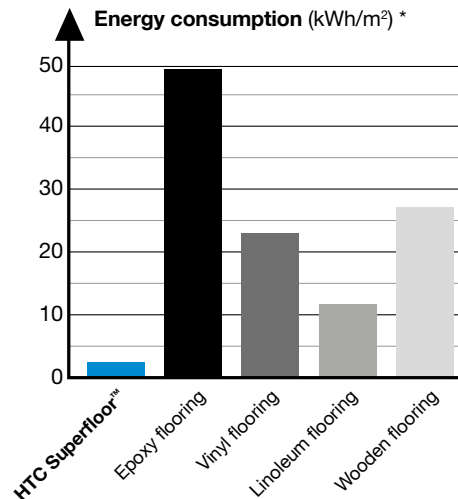


## Environmental information

A floor polished in accordance with the HTC Superfloor™ Platinum concept consists of pure concrete.

In the process, only environmentally friendly impregnation and cleaning fluids are used, which means the floor doesn't present a hazard to health or the environment.

The floor has a very long service life and high strength, which reduces the need for maintenance, and thus the environmental burden, to an absolute minimum.



### HTC Superfloor™ vs. epoxy flooring. How many times less is the environmental impact (Factor)? \*

	Epoxy Peran 3 mm	HTC Superfloor™	Factor
Potential greenhouse effect CO2	16 700	88.2	189
Acidification	102	0.186	548
Eutrophication	13.5	0.0178	758

\* Source: "Life Cycle Assessment of Industrial Flooring", LITH-IKP-EX-06/2383--SE

\*\* Source: Report from SP, F812033-2

# HTC Superfloor™ Platinum

## Fire Class

The European Commission has awarded HTC Superfloor™ the highest European classification, A1FL (decision 96/603/EC) and it is therefore considered to be fireproof/non-combustible.

## ESD - Electrostatic discharge

Resistance tests, performed on beam structures and on concrete slabs on the ground, have shown that HTC Superfloor™ complies with the requirements in standard SS-EN 61340-5-1.

Measured values also fulfil the international IEC standard and the American standard ANSI/ESD.

Walking tests with ESD shoes give, in general, no or little static charge. HTC Superfloor™ has not exceeded the threshold values for the ESD standard in any case. The limit values in the standard for handling electronics have not been exceeded in any case by HTC Superfloor™. Nevertheless, we still recommend the use of END shoes on HTC Superfloor™, particularly when handling electronics with maximum 100 volts.

## Cleaning and maintenance

Cleaning: A floor polished in accordance with the HTC Superfloor™ Platinum concept is cleaned using a combi-scrubber and Twister™ Green, water and, where appropriate, Twister™ Floor Conditioner. Smaller areas can be dry-mopped.

**NB!** Strong alkaline or acidic agents will damage the floor properties and should not be used. For further information, go to [www.htc-twister.com](http://www.htc-twister.com).

## Surface protection

If protection against stains is required, we recommend HTC Stain Protection.

## Reconditioning

If a floor polished in accordance with the HTC Superfloor™ Platinum concept, becomes dull, the gloss and cleanability are restored by simple repolishing.

## Project planning guide

Text according to the following:

"Concrete floors treated in accordance with HTC Superfloor™ Platinum".

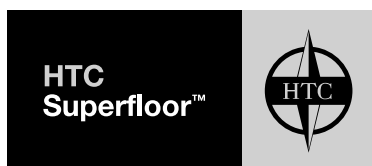
After removal of any surface layer, and cleaning up of lime residues, grinding and polishing in accordance with HTC's grinding guide. By grinding and polishing a test area, the floor quality and appearance can be checked, and the best work method selected.

During the casting of a new floor, there is the possibility, to a certain extent, to influence the size of the aggregate and content as well as to colour the cement paste, thus creating a totally unique floor. HTC Superfloor™ is suitable for concrete floors that are constructed with traditional net reinforcement, not steel fibres.

## Reports

All reports referred to in this document are available for downloading from our website. In some cases, the report is only available in the original language.

Use the link [www.htc-floorsystems.com/testresult](http://www.htc-floorsystems.com/testresult) for direct access to the reports.



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