Diamonds - It's brilliant!

HTC Superfloor™ Silver

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™ Silver

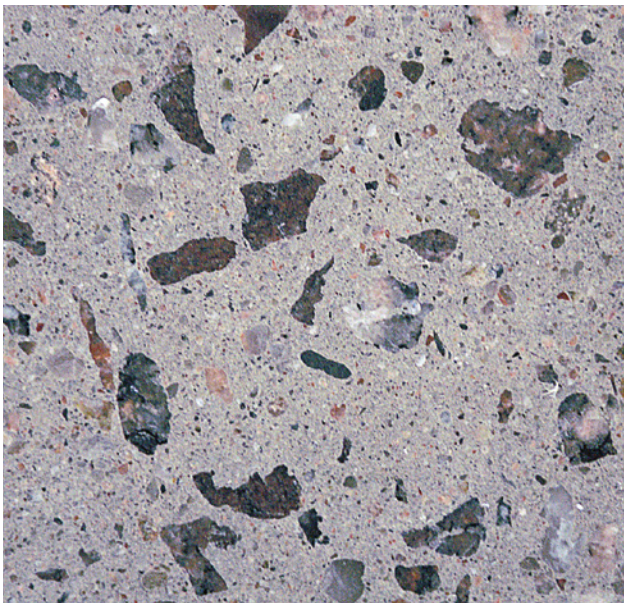
HTC Superfloor™ Silver

Silver is the concept to choose if you want to obtain the characteristics of a well-ground floor and a matt surface. 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. Normally, 2 - 3 mm of the surface is ground away.

Due to the nature of the concrete construction, the larger aggregate may be exposed unevenly in the surface.

The floor is 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 surface with many good qualities, both functionally and aesthetically.



HTC Superfloor™
Silver

Areas of application

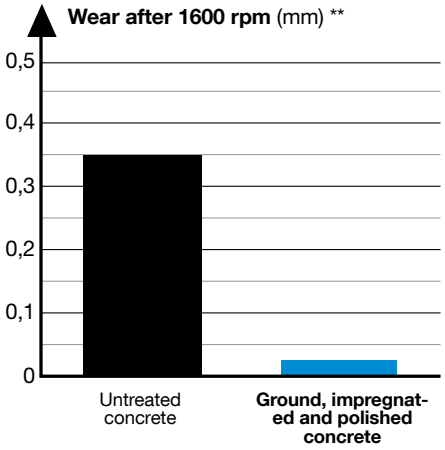
- On old as well as newly laid concrete
- Industry, workshops
- Warehouses
- Public spaces
- Shops
- Domestic environments

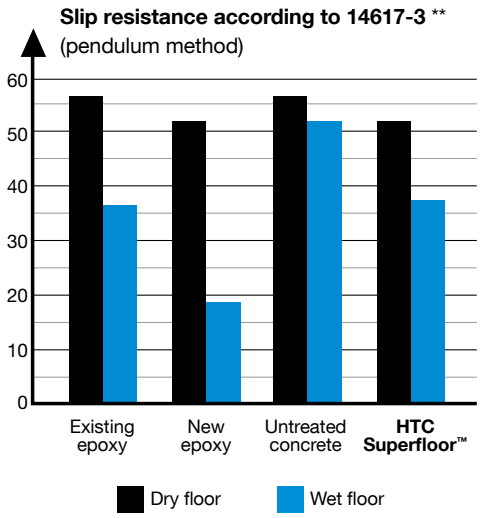
Advantages

- 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

Technical characteristics

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



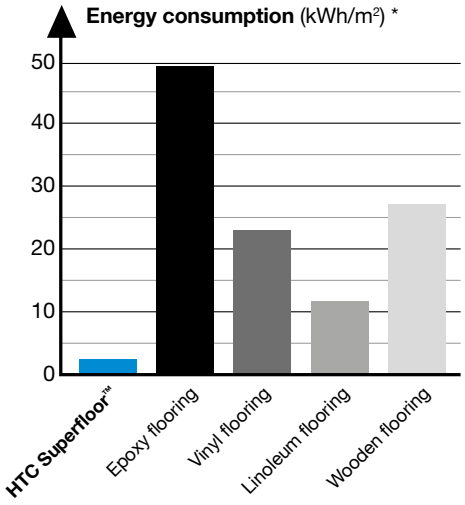


Environmental information

A floor polished in accordance with the HTC Superfloor™ Silver 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*

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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 exceed 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™ Silver concept is cleaned using a combi-scrubber and Twister™ Yellow, 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**.

Surface protection
HTC Stain Protection Pore Primer is recommended.

Project planning guide
Text according to the following:
"Concrete floors treated in accordance with HTC Superfloor™ Silver".

After removal of any surface layer, and cleaning up of lime residues, grinding and polishing in accordance with HTC's grinding guide. By grinding 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** for direct access to the reports.

HTC Superfloor™

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