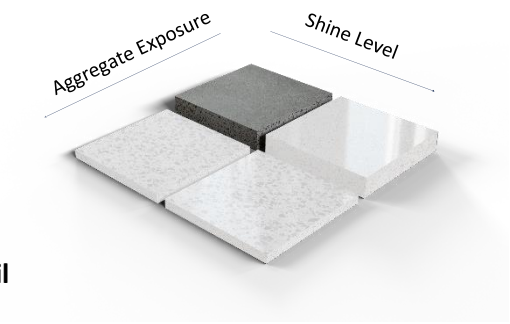
Husqvarna SUPERFLOOR™ Satin



Husqvarna SUPERFLOOR™ Satin is a method to create a medium gloss concrete floor with a low to medium ("fine) level of aggregate exposure. The result is a floor that offers functionality and low maintenance but is still aesthetically pleasing. Satin finish is a popular application for industries, retail areas, warehouses and logistic centers.

For a floor to be called Husqvarna SUPERFLOOR Satin, it must meet the requirements set in the *"Husqvarna SUPERFLOOR™ specification"* document*, both regarding equipment being used, the process described, and final surface metrics.

For Husqvarna SUPERFLOOR™ Satin the following special requirements apply for concrete surfaces that are to be given a final finish by polishing according to the Husqvarna SUPERFLOOR™ concept. Note that coarse/flat grinding is not included in this concept. SUPERFLOOR™ Satin requires that the surface is already smooth and flat, otherwise – customize the process and expand with initial coarser metal bonded tools.

CASTING

For the floor to have a uniform appearance, the casting is of the greatest importance. (A poorly cast floor will be costly to grind, and even if the function of a polished floor can be achieved, the finish will be affected by uneven aggregate, cracks, etc.) The Husqvarna SUPERFLOOR™ method is not in itself a method for preventing cracks in the floor, etc.

Thanks to experience from earlier examples, we can give the following tips on points to consider before casting, but please note: The designer is always responsible for ensuring the requirements are met regarding reinforcement and concrete quality as well as dimensioning. For details regarding the concrete placement, please see latest version of *"Concrete and Casting recommendations Husqvarna SUPERFLOOR™"*.*

1. If the finished floor is to fulfil specific levels of floor flatness (F_F), these requirements must be met already when concrete is placed. The existing concrete surface is finished by grinding. Minor irregularities can be corrected, but the grinding will be more time-consuming.)
2. The surface should be thoroughly power floated as well as trowelled to achieve a surface as smooth, dense, hard, pore-free and level as possible.
3. After placement: Minimize cracks and crazing by keeping the surface moist during the first 5-7 days. Avoid uneven dehydration since this might otherwise cause color differences and visual imperfections in the concrete.
4. Normally, grinding can be initiated already 5-7 days after casting. But polishing should be left until a later date, when the moisture level in concrete is lower.
5. A too early application of a densifier will result in a non-optimal effect. Recommendation is to wait at least 14 days.

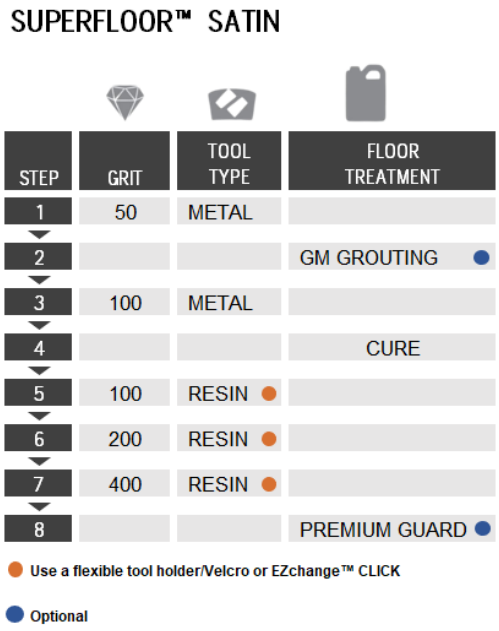
GRINDING PROCESS

The first grinding step is intended to remove the concrete skin and expose the underlying fine material to meet the level defined in section 7 of the "*Husqvarna SUPERFLOOR™ specification"* document*.

After the first metal step, the surface is inspected for cracks and pores. Where necessary, pores in the surface are filled with a product from the Husqvarna Floor Grouting system, if ordered by the customer. In the grinding process, the concrete surface is treated with a densifier from the Husqvarna Floor Hardening system.

After the final polishing step, the floor is cleaned using an auto- scrubber and a #3000 grit diamond impregnated Husqvarna Maintenance pad. Note: throughout the whole SUPERFLOOR™ process, use only water in any cleaning step (no additives, soap or detergents) since otherwise the penetration and performance of any floor treatment chemical might be affected.

After cleaning, measure the surface characteristics to make sure the end result is according to expected specifications and what has been agreed upon prior to work. The recommended surface specifications shown below are general objectives, and might vary some depending on specific floor characteristics. It is important that contractor and customer always agree upon specifications prior to work.



Grinding process for SUPERFLOOR™ Satin.

Note: Make sure resin tools are run with a flexible or velcro tool holder or an EZ change click holder.

Recommended and expected surface specifications for SUPERFLOOR™ Satin:

Ra: <1,0µm (40µin)
GU: >20
DOI: >20
Correlating US CPC levels: Exposure Class B & Appearance Level 2 or above.

Surface Protection

If the project includes also final application of any stain protection/guard use a product from the Husqvarna Floor Protection system. The surface must not be waterlogged when impregnating. Maximum 5% water content.

THE FINISHED FLOOR

A concrete floor that has been finished to a Husqvarna Superfloor™, can be put to use immediately and already has characteristics such as smoothness, high cleanability, good friction as well as high resistance to wear and great durability. To maintain these characteristics it is highly recommended to follow the instructions as described in the Husqvarna SUPERFLOOR™ Maintenance document*.
The cleaning is completely free from chemicals and only uses pure tap water as additive. Because concrete is mainly a natural material, it can be an advantage to add natural stone soap, when needed, to the cleaning process.

If finishing has been carried out using Husqvarna Floor Protection system, the floor has an increased protection against stains, which means that most liquid spills can be wiped up within 30-45 minutes without any residual stains. However, concrete is very sensitive to corrosive substances such as strong acids and alkalis, which should be removed immediately. For more information about our Stain Protection agents and other Floor Treatment products, please reach out to your local sales contact, or visit our website.

For newly ground concrete floors:
Avoid letting residual water in the form of pools/rivulets dry out/evaporate as this can cause a reaction in the form precipitation or permanent variations in the surface. The resistance increases with time and after approx. 2 months, reactions are not likely. However, large quantities of liquids should not be left to dry on the floor because a Husqvarna SUPERFLOOR™ is not a sealed floor - it is diffusion open.

If the finished floor needs to be covered with protective material, preferably use protective covering that breathes(diffusion open) such as Ramboard. It is important that the entire floor dries out at the same rate. Otherwise there is risk of permanent color differences.
Do not use tape directly on the finished surface since this risk leaving visible marks.

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* Referring documents:
See https://www.husqvarnaconstruction.com/int/floor-solutions/guides-and-documents/

- *Husqvarna SUPERFLOOR™ specification*
- *Concrete and Casting recommendations Husqvarna SUPERFLOOR™*
- *Maintenance instructions_Husqvarna SUPERFLOOR™*