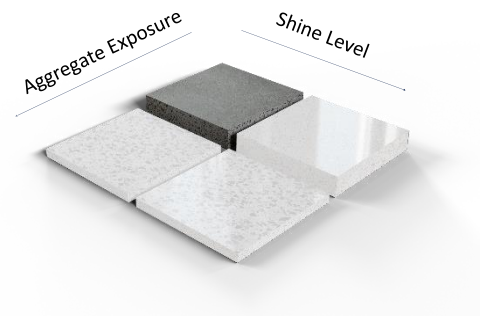


Husqvarna SUPERFLOOR™

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 retail areas, shop fronts and indoor public spaces.

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. The surface should be power floated. (To achieve a surface as pore-free and level as possible, thorough power floating is required).
2. The surface should be heavily troweled to obtain as smooth, dense and hard a surface as possible.
3. Normally, the concrete surface should be water hardened under plastic sheeting for 5-7 days after casting, before any grinding starts. Coarse grinding and honing can be carried out at this time while polishing is left until a later date, when moisture level in the concrete is lower.
4. The surface must not be waterlogged when impregnating. Maximum 5% water content. (This is to enable the silicate solution to penetrate and react with the concrete.)
5. If the finished floor is to fulfil class A as per Swedish Hus AMA 14, table 43 DC/1, the floor must also fulfil identical requirements before the Husqvarna SUPERFLOOR™ method commences. The same also applies for class B floors. (This is very important to remember when planning. The existing concrete surface is finished by grinding. Minor irregularities can be corrected, but the grinding will be more time-consuming.

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 J of the 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 diamond impregnated 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.

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.



STEP	GRIT SIZE	TYPE OF TOOL	CHEMICAL
1	80	Metal	
2			GM GROUTING
3	150	Metal	
4			CURE
5	100	Resin ●	
6	200	Resin ●	
7	400	Resin ●	
8			PREMIUM GUARD

● Flexible/Velcro tool holder

Grinding process for SUPERFLOOR Satin following the EZ-tool system. If Redi-tool system is used, then corresponding metal bond tool grits are #50 and #100.

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

*See the complete general grinding process for a Husqvarna SUPERFLOOR™ in the Husqvarna grinding guide "Grinding Guide HTC System 2021"

THE FINISHED FLOOR

A concrete floor that has been finished to a Husqvarna Superfloor™, can be put to use immediately and already has characteristic such as smoothness, high cleanability, good friction as well as high resistance to wear and great durability. The floor is very easy to clean and to maintain these characteristics it must be cleaned following the instructions as described in the document "*Maintenance instructions_Husqvarna SUPERFLOOR*"

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.

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. Concrete does not withstand corrosive substances such as strong acids and alkalis, which must be removed immediately.

If the floor is covered with protective material**, it is important that the entire floor dries out at the same rate, because it would otherwise result in permanent color differences. Do not use tape directly on the concrete.

**See the complete general grinding process for a Husqvarna SUPERFLOOR™ in the Husqvarna grinding guide "Grinding Guide HTC System 2021"*

***Preferably, use protective covering that breathes such as Ramboard*

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Referring documents:

- *Husqvarna SUPERFLOOR specification*
- *Concrete and Casting recommendations Husqvarna SUPERFLOOR*
- *Maintenance instructions_Husqvarna SUPERFLOOR*
- *Husqvarna Grinding Guide HCT System 2021*