

1. GENERAL

1.1 SUMMARY

- A. Section Includes: Products and procedures for processing bonded abrasive polished concrete floors using multi-step wet/dry mechanical process, and accessories indicated, specified, or required to complete polishing.

1.2 REFERENCE STANDARDS

A. Terminology:

1. For a floor to be acknowledged as having been created according to the Husqvarna SUPERFLOOR™ process, the surface needs to have been refined using solely Husqvarna equipment, tooling and chemicals following the specified well-defined SUPERFLOOR process for achieving the desired characteristics. Also the end result must comply with the defined expected specifications, see section 1.5. Finally, the operator must be a certified or approved Husqvarna SUPERFLOOR™ contractor.
2. Husqvarna SUPERFLOOR™ is a process including a complete concept of machines, tools, chemicals for creating a mechanically refined, polished and diffusion open concrete surface with defined resulting surface metrics (Ra, DOI and GU), that meets the daily demands on a professional floor surface for the industry, retail as well as public sector.
3. Polished Concrete: The act of changing a concrete floor surface, with or without aggregate exposure, to achieve a specified “finished gloss” level.
4. Bonded abrasive polished concrete: The multi-step operation of mechanically grinding, honing, and polishing a concrete floor surface with bonded abrasives to cut a concrete floor surface and to refine each cut to the maximum potential to achieve a specified level of finished gloss.
5. This specification does not cover other polished surfaces as toppings, terrazzo floors or resin surfaces.

B. Standards:

1. ASTM 5767 - Standard Test Method for Instrumental Measurement of Distinctness-of-Image Gloss of Coating Surfaces
2. ASTM D523 – Standard Test Method for Specular Gloss
3. ANSI A326.3-2017 (Dynamic Coefficient Friction of Hard Surface Flooring)
4. DIN EN ISO 4287 - Geometrical Product Specifications (GPS) - Surface texture: Profile method - Terms, definitions and surface texture parameters.
5. CSDA-ST-115 - Measuring Concrete Micro Surface Texture.

C. Other references:

1. CPC Appearance Chart and Aggregate Exposure Chart for polished concrete, as defined by the Concrete Polishing Council (CPC), a specialty council of the American Society of Concrete Contractors (ASCC)

NOTE TO SPECIFIER: FINAL RESULTS OF THE POLISHING PROCESS ARE HIGHLY DEPENDENT UPON THE QUALITY OF THE CONCRETE, MIX DESIGN, FINISHING TECHNIQUES, AND CURING METHODS. IT IS HIGHLY RECOMMENDED THAT BOTH NEW CONSTRUCTION AND RENOVATION PROJECTS ADHERE TO THE SUBPARAGRAPHS BELOW TO ENSURE DESIRED EXPECTATIONS.

2. FIELD CONDITIONS

A. Recommended concrete quality:

NOTE! Concrete floors are designed according to requirements depending on activity and load. **The designer is always responsible** for ensuring the requirements are met regarding reinforcement and concrete quality as well as dimensioning. Always according to local standards when applicable.

If no consideration is taken to the requirements of dimensioning for activity or load, consider the below specifications as a guideline for placing a concrete slab optimal for grinding and polishing, see Husqvarna's "Concrete and Casting recommendations for SUPERFLOOR"

- Apply curing methods / procedures to minimize shrinkage, cracks and pores
- Concrete quality C28/35 (equal to a 4000 psi concrete mix).
Concrete quality should not be less than C25/C30 (3500 psi)
- No admixtures (if at all possible)
- W/C ratio: <0,55
- Slump: ≤ S4 (<210mm or 8,3")
- Finish to Floor Flatness (F_F) > 50
- Floor Levelness (F_L): n/a
- Place, strike off, pan/consolidate, finish with troweling using steel or combo blades to meet above spec.

B. Field Mock-up:

Before starting an Husqvarna SUPERFLOOR™ project, **always provide a field mock-up** to verify selections made under submittals and to demonstrate aesthetic effects of polishing. See recommended surface specifications for each SUPERFLOOR process under section H. Note: The defined specifications are general expectations/objectives but might vary some depending on specific floor characteristics. It is important that contractor and customer agree upon specifications prior to work.

1. Mock-up shall be representative of work to be expected.

C. Damage and Stain Prevention: Take precautions to prevent damage and staining of concrete surfaces to be polished.

3. POLISHING EQUIPMENT

A. Field Grinding and Polishing Equipment:

1. Husqvarna professional floor grinder, size 5 and up. For example PG 5, 6 or 8-series. A ride-on Husqvarna power trowel like CRP 48, or combinations hereof.
2. If applicable, also other proper Husqvarna surface prep equipment may be used to initially remove impurities or debris like screed, paint, glue etc. or to quickly expose heavy aggregate.
3. Husqvarna matching professional dust extractor such as the DE 130 or above. For example D60, D80, T7500, T1000 or alike.
4. If wet grinding, honing, or polishing, use slurry extraction equipment suitable for slurry removal and containment prior to proper disposal.

B. Edge Grinding and Polishing Equipment:

1. Husqvarna 270EG professional floor edge grinder and polisher, and/or handheld grinder.

C. Diamond Tooling:

Husqvarna abrasive tools that contain industrial grade diamonds within a bonded matrix (such as metallic, resin, ceramic, etc.) that are attached to rotating heads to refine the concrete substrate. (see www.husqvarnaconstruction.com/int for a detailed current overview)

Preferably Husqvarna EZ tool system as well as maintenance tools from Husqvarna Floor Maintenance system

NOTE: If available and needed, also old Husqvarna Diamond tools are approved, originating from the Redi Tool system or Blastrac system.

D. Floor Treatment products:

For a floor to be called a Husqvarna SUPERFLOOR, the process must include only floor treatment products from the Husqvarna Floor Treatment system. The SUPERFLOOR processes always includes a densifier from Husqvarna Floor Hardening System, and if applicable and agreed upon with the customer, also additional treatment from Husqvarna Floor Grouting System and Husqvarna Floor Protection System. See section 9 for a graphical overview.

For daily cleaning, products from the Husqvarna Floor Maintenance system should be used, like Husqvarna Maintenance pads as well as the natural stone soap Clean & Protect, when applicable. See separate Maintenance instructions for Husqvarna SUPERFLOOR™ for more info.

4. PREPARATION

A. Prepare and clean concrete surfaces.

B. Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, paint splatter, and other contaminants incompatible with liquid applied products and polishing.

THE FOLLOWING PARAGRAPH AND SUB-SUBPARAGRAPHS ARE APPLICABLE WHEN SPECIFYING HUSQVARNA SUPERFLOOR PROCESSES. NOTE THAT SOME PARTS THEREOF MIGHT BE OMITTED DEPENDING ON WHAT SUPERFLOOR PROCESS IS BEING SPECIFIED AND WHAT HAVE BEEN AGREED UPON WITH CUSTOMER PRIOR TO WORK.

5. POLISHING CONCRETE FLOORS

Perform all polishing procedures to ensure consistent characteristics from wall to wall.

A. Initial **Grinding** (to flatten the floor and expose the required amount of aggregate):
Usually performed up to the second last metal bonded step, which is usually Brown Metal (#50 grit in the EZ tool system)
Expected Ra readings after completion <6 µm / <235 µ inch.

1. Select appropriate Husqvarna Grinder.

2. Based upon selected Husqvarna Grinder, and the hardness of the concrete, select appropriate metal bonded diamond tool series. Hardness of the concrete can be tested for example by using Moh's hardness test to gauge abrasion resistance of concrete.

3. For the first grinding step, begin grinding in one direction and make sequential passes with each pass perpendicular to previous pass.
4. Pay special attention to that tool performance meets your expectations. Otherwise change tool into another more suitable bond. If tool wear exceeds 1mm during the first 30mins the bond is likely too hard.
5. Recommended grinder and tooling setup
 - a. Recommended setup for the metal bonded diamond tools are: Half set, Double segments.
 - b. Recommended grinder settings for the metal bonded diamond tools are: 550-700 rpm, forward speed <3m/min, see table below. If available, use weights and mist to optimize performance of the tools.

General default settings		RPM (disc speed)	Forward speed (m/min)	Weights	Mist
#25-100	rough grinding (metal)	550-700	<=3	Forward	Yes
#100-400	fine grinding (resin)	600-850	2 - 3,5	Forward	No
#800-3000	polishing (resin)	700-1000	3 - 4,5	Upwards	No

Table 1: Recommended grinder settings

6. Continue grinding until achieving specified Aggregate Exposure. (See section H – Aggregate exposure)
7. Shift to the next tool in the grinding process and continue to make sequential passes with each pass perpendicular to previous pass using finer grit tool with each pass, up to Brown (#50 grit) Metal bonded tooling.
8. Achieve maximum refinement with each pass before proceeding to finer grit tools.
9. Clean floor thoroughly after each pass using dust extraction equipment properly fitted with squeegee attachment or walk behind auto scrubber suitable to remove all visible loose debris and dust.

- B. Grouting:** Before the last metal step, the surface is inspected for cracks and pores. Where necessary, and if ordered by the customer, pores in the surface are filled with a GM grouting product from the Husqvarna Floor Grouting system*. Husqvarna grouting products are specifically formulated for pore filling of pin-holes and micro cracks in concrete surfaces.

If necessary, fill surface imperfections including, but not limited to, holes, surface damage, small and micro cracks, air holes, pop-outs, and voids with grout to eliminate micro pitting in finished work.

Follow the application instructions printed on the front label for the chosen grouting product. For example, Husqvarna GM 3000 is usually engaged after Brown Metals #50 grit by pouring out the grouting product onto the floor, then directly grinding it “down” into the floor until dry, using Black Metals #100 grit, which usually takes two passes. Do not vacuum the floor afterwards, only gently clean the surface from larger debris using a squeegee.

If GM 3000 is used, then immediately apply a Husqvarna densifier on top of the grouted surface to let both products fully dry and harden together (usually takes approx. 8-12hrs).

If GM+ is used, then let this product harden first (usually takes approx. 8-12hrs) before grinding the last Metal step using Black Metals #100 grit.

* **Note.** Although shown on our process maps, grouting is not a compulsory step in the SUPERFLOOR process since each floor is unique and not all requires grouting. This step must be agreed upon separately. However, we always recommend grouting to be done in order to maximize the performance and appearance of the final floor. See also section 9 for a graphical illustration.

- C. **Densification:** Apply a CURE concrete hardener from the “Husqvarna Floor Hardening System” according to project agreement. All Husqvarna CURE densifiers provides a solution capable of increasing the abrasion- and scratch resistance of concrete, while adding basic stain resistance, limiting efflorescence and dustproofing the surface.

Husqvarna CURE densifier is usually applied after the last metal bonded step, which is Black Metals #100 grit in the EZ tool system.

1. Remove all dust and debris from concrete surface.
2. Use Husqvarna approved densifier such as the Husqvarna CURE+, CURE (K) or CURE (L). Spray it onto the floor. Use pad applicator fitted with microfiber pad to spread evenly on surface. Product does not need vigorous scrubbing-in and will not form a gel. As product is absorbed into surface, apply additional product as needed until floor starts to reject the product. Keep floor moist for 15-20 minutes, spreading with mop to avoid leaving puddles. Allow to fully dry (usually takes approx. 8-12hrs). Then continue with the next step (honing) in the polishing process.

When properly applied, the densification process will create a floor with higher density, lower porosity, less dusting and improved wear resistance; which is key to producing a high quality floor according to the Husqvarna SUPERFLOOR process.

* **Note.** Timing for application and choice of densification and grouting is greatly determined by the surface profile and how well the tools are responding. A too soft concrete substrate would hinder the tool from achieving the wanted surface refinement – applying grouting and/or densifying would then assist the tooling to achieve the required surface refinement before continuing the process.

- D. **Honing:** By honing we mean “fine grinding” using resin bonded diamond tools (or hybrid transitional tools) aggressive enough to successfully remove the coarse scratches left from the metal bonded tools but also fine enough to prepare the floor for final polishing. The honing steps ranges from #100 grit to #400 grit which is from Black Resin #100 grit to Red Resin #400 grit in the EZ tool system.

Expected Ra readings after completion up to #400grit <1,8 µm / <70 µ inch.

1. Use approved Husqvarna Grinder with selected Husqvarna Resin tooling.
2. Adjust grinder settings in accordance to table 1 in section 3.2.A
- 3.hone concrete in one direction beginning with a tool sufficient to remove all scratches from previous step and make as many sequential passes required to refine surface, each pass perpendicular to previous pass. Make sure you reach maximum refinement with each pass before proceeding to finer grit tooling.
4. Apply additional densification when necessary. We recommend additional application on only the first two Honing steps (#100 and #200) to optimize surface texture and final appearance. This will help in closing the new small micro pinholes that are exposed during sequential grinding and also aid in maximizing final gloss. The additional densification is only lightly sprayed in front of the machine and

immediately grinded down when wet. No sequential curing or hardening time necessary.

5. Clean floor thoroughly after each pass using dust extraction equipment properly fitted with squeegee attachment or walk behind auto scrubber suitable to remove all visible loose debris and dust.
 6. Continue Honing until Ra readings, Gloss and DOI are according to project agreement. Continue with Polishing if surface specifications are not yet met.
- E. **Polishing:** (To optimize the flatness and shine of the polished floor)
The Husqvarna polishing steps ranges from #800 grit to #3000 grit which is from White Resin #800 grit to Green Resin #3000 grit in the EZ tool system.
1. Use approved Husqvarna Grinder with selected Husqvarna Resin tooling
 2. Adjust grinder settings in accordance to table 1 in section 3.2.
 3. Polish until Ra readings, Gloss and DOI are according to project agreement.
 4. Clean floor thoroughly after each pass using dust extraction equipment properly fitted with squeegee attachment or walk behind auto scrubber suitable to remove all visible loose debris and dust. depending on choice of Husqvarna polishing tools, the expected final surface refinement values can be reached at different grit levels. Then you can top here. There is no requirement to follow the full specified process if you meet expected end results already at an earlier step.

NOTE! Always measure surface texture readings prior to the application of any sealer/guard/cleaning agent.

THE FOLLOWING PARAGRAPH IS APPLICABLE WHEN PROJECT AGREEMENT INCLUDES STAIN PROTECTED SURFACES

6. STAIN PROTECTION

- A. Apply a GUARD product from the “Husqvarna Floor Protection System” range according to project agreement. The Husqvarna GUARD products are all providing stain protection to concrete floors and natural stone, restricting the absorption of water, oil, fats and dirt. Stains are kept at the surface level, which simplifies maintenance and extends the lifespan of the floor. The PREMIUM-range is the primary choice when creating a SUPERFLOOR since diffusion-openness is fully preserved. PREMIUM GUARD WB (Water based) is our recommended general choice for all matte floors.
- B. Uniformly apply and remove excessive liquid according to users instructions. Pay special attention to avoid excessive material being applied and also avoid pouring out any GUARD product directly onto the floor as the floor might then absorb more on that specific spot, creating a color difference (darkening effect) compared to those parts treated with less GUARD material.

* **Note.** Although shown on our process maps, Stain Protection is not a compulsory step in the SUPERFLOOR process and must be agreed upon separately. However, we strongly recommend to protect the finished floor from unintentional spills since otherwise there is a high risk of permanent stains. See also section 9 for a graphical illustration.

RETAIN THE FOLLOWING THREE SUBPARAGRAPHS FOR CLASS OF AGGREGATE EXPOSURE. NOTE TO SPECIFIER: AGGREGATE EXPOSURE LEVELS ARE DEPENDANT UPON CONCRETE MIX DESIGN AND FLOOR FLATNESS (FF). REVIEW SPECIFIED AGGREGATE EXPOSURE DURING PRE INSTALLATION CONCRETE CONFERENCE

7. FINAL POLISHED CONCRETE FLOOR AGGREGATE EXPOSURE

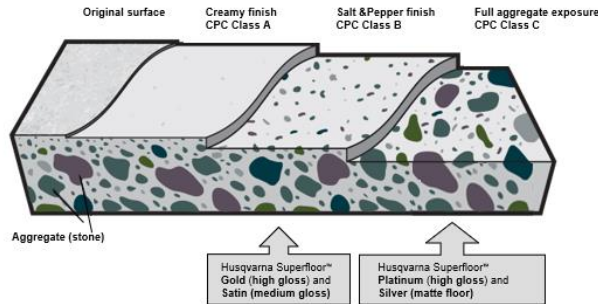


Fig 1. Final Polished Concrete Floor Aggregate Exposure

- A: Aggregate Exposure: Fine / Sand Aggregate Finish**
(Correlating to the CPC Aggregate exposure class A “Cement Fines”)
Remove not more than 1/16 inch (1.5 mm) of concrete surface by grinding and polishing resulting in majority of exposure displaying fine aggregate with no, or small amount of, medium aggregate at random locations.
- B: Aggregate Exposure: Medium Aggregate Finish**
(Correlating to the CPC Aggregate exposure class B “Fine Aggregate”)
Remove not more than 1/8 inch (3 mm) of concrete surface by grinding and polishing resulting in majority of exposure displaying medium aggregate with no, or small amount of, large aggregate at random locations. **Correlating to the SUPERFLOOR GOLD and SATIN finish**
- C: Aggregate Exposure: Large Aggregate Finish**
(Correlating to the CPC Aggregate exposure class C “Coarse Aggregate”)
Remove not more than 1/4 inch (6 mm) of concrete surface by grinding and polishing resulting in majority of exposure displaying large aggregate with no, or small amount of, fine aggregate at random locations. Please note that there can be no guarantees for aggregate exposure as this is dependent upon the composition of the concrete slab, regardless of new installation or renovation project. **Correlating to the SUPERFLOOR SILVER and PLATINUM finish**

RETAIN THE APPLICABLE SUBPARAGRAPHS FOR LEVELS OF FINISHED SURFACE SPECS (GLOSS, DOI, Ra) AND AGGREGATE EXPOSURE WHEN SPECIFYING THE DESIRED HUSQVARNA SUPERFLOOR CONCEPT

8. FINAL POLISHED CONCRETE FLOOR APPEARANCE

A. Husqvarna SUPERFLOOR™ PLATINUM

Large aggregate / High gloss appearance:

- a. Procedure: Recommended 8 grinding steps with full refinement of each diamond tool with minimum one thorough application of densifier. Starting tool #25/30 grit Metal tools. Grind and polish until expected surface refinement values are met, which usually requires a process ranging up to #1500 grit Resin tools.
- b. Surface Measurement: Determine the Specular gloss, DOI and surface roughness by incorporating the following recommendations/objectives.

NOTE! Always measure the below surface readings prior to the application of any sealer/guard/cleaning agent.

- **Ra:** Surface Profile Reading, i.e Roughness Average (Ra):
Maximum Ra measurement 0.4 µm /16 µ inches
- **Gloss:** Reflective Sheen Reading, i.e. Specular Gloss (GU) according to ASTM D523: Not less than 50
- **Distinctness:** Reflection Clarity, i.e. Distinctness of Image (DOI) according to ASTM D5767: Not less than 50
Similar to US CPC Appearance Level 3 or above.

B. Husqvarna SUPERFLOOR™ GOLD

Fine to medium Aggregate/ High gloss appearance:

- a. Procedure: Recommended 7 steps with full refinement of each diamond tool with minimum one thorough application of densifier. Starting tool not coarser than Brown Metals #100 grit. Grind and polish until expected surface refinement values are met, which usually requires a process ranging up to #1500 grit Resin tools.
- b. Surface Measurement: Determine the Specular gloss, DOI and surface roughness by incorporating the following recommendations/objectives.

NOTE! Always measure the below surface readings prior to the application of any sealer/guard/cleaning agent.

- **Ra:** Surface Profile Reading, i.e Roughness Average (Ra):
Maximum Ra measurement 0.4 µm /16 µ inches
- **Gloss:** Reflective Sheen Reading, i.e. Specular Gloss (GU) according to ASTM D523: Not less than 50
- **Distinctness:** Reflection Clarity, i.e. Distinctness of Image (DOI) according to ASTM D5767: Not less than 50
Similar to US CPC Appearance Level 3 or above.

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C. Husqvarna SUPERFLOOR™ **SILVER**

Large aggregate/ Low gloss (matte) appearance:

- a. Recommended 4 grinding steps with full refinement of each diamond tool with minimum one thorough application of densifier. Starting tool Metal #25/30 grit. Grind and polish until expected surface refinement values are met, which usually requires a process stopping at #100 grit Resin to generate a matte floor and avoid any gloss being built up. Preferably use a grinding pad, like EF D, VF D or alike, as the last resin step to clean up the floor and leave a nice finish. Also VP D pucks are providing good results here.
- b. Surface Measurement: Determine the Specular gloss, DOI and surface roughness by incorporating the following recommendations/objectives.

NOTE! Always measure the below surface readings prior to the application of any sealer/guard/cleaning agent.

- **Ra:** Surface Profile Reading, i.e Roughness Average (Ra):
Maximum Ra measurement 4 µm /150 µ inches
- **Gloss:** Reflective Sheen Reading, i.e. Specular Gloss (GU) according to ASTM D523: <10
- **Distinctness:** Reflection Clarity, i.e. Distinctness of Image (DOI) according to ASTM D5767: <10
Similar to US CPC Appearance Level 1 or below.

D. Husqvarna SUPERFLOOR™ **SATIN**

Fine to medium Aggregate/ Medium gloss appearance

- a. Procedure: Recommended 5 grinding steps with full refinement of each diamond tool with minimum one thorough application of densifier. Starting tool not coarser than Brown #50 grit Metal. Grind and polish until expected surface refinement values are met, which usually requires a process ranging up to #400 grit Resin tools.
- c. Surface Measurement: Determine the Specular gloss, DOI and surface roughness by incorporating the following recommendations/objectives.

NOTE! Always measure the below surface readings prior to the application of any sealer/guard/cleaning agent.

- **Ra:** Surface Profile Reading, i.e Roughness Average (Ra):
Maximum Ra measurement 1 µm /40 µ inches
- **Gloss:** Reflective Sheen Reading, i.e. Specular Gloss (GU) according to ASTM D523: Not less than 20
- **Distinctness:** Reflection Clarity, i.e. Distinctness of Image (DOI) according to ASTM D5767: Not less than 20
Similar to US CPC Appearance Level 2 or above.

9. SUMMARY OF HUSVARNA SUPERFLOOR PROCESSES & SPECIFICATIONS

Find below a summary of Husqvarna SUPERFLOOR™ processes* and their recommended surface specifications.

SUPERFLOOR™ PLATINUM

STEP	GRIT	TOOL TYPE	FLOOR TREATMENT
1	25/30	METAL	
2	50	METAL	
3			GM GROUTING
4	100	METAL	
5			CURE
6	100	RESIN	
7	200	RESIN	
8	400	RESIN	
9	800	RESIN	
10	1500	RESIN	
11			PREMIUM GUARD

● Use a flexible tool holder/Velcro or EZchange™ CLICK
● Optional

SUPERFLOOR™ GOLD

STEP	GRIT	TOOL TYPE	FLOOR TREATMENT
1	50	METAL	
2			GM GROUTING
3	100	METAL	
4			CURE
5	100	RESIN	
6	200	RESIN	
7	400	RESIN	
8	800	RESIN	
9	1500	RESIN	
10			PREMIUM GUARD

● Use a flexible tool holder/Velcro or EZchange™ CLICK
● Optional

SUPERFLOOR™ SATIN

STEP	GRIT	TOOL TYPE	FLOOR TREATMENT
1	50	METAL	
2			GM GROUTING
3	100	METAL	
4			CURE
5	100	RESIN	
6	200	RESIN	
7	400	RESIN	
8			PREMIUM GUARD

● Use a flexible tool holder/Velcro or EZchange™ CLICK
● Optional

SUPERFLOOR™ SILVER

STEP	GRIT	TOOL TYPE	FLOOR TREATMENT
1	25/30	METAL	
2	50	METAL	
3			GM GROUTING
4	100	METAL	
5			CURE
6	100	RESIN	
7			PREMIUM GUARD

● Use a flexible tool holder/Velcro or EZchange™ CLICK
● Optional

* **Note.** Although shown on our process maps, **Grouting** is not a compulsory step in the SUPERFLOOR process since each floor is unique and not all requires grouting. This step must be agreed upon separately. However, we always recommend grouting to be done in order to maximize the performance and appearance of the final floor. See section 5.B for details.

****Note.** Same goes for **Premium Guard**. Stain Protection is not a compulsory step in the SUPERFLOOR process and must be agreed upon separately. However, we strongly recommend to protect the finished floor from unintentional spills since otherwise there is a high risk of permanent stains. See section 6 for details.

The recommended specifications below are general recommendations/objectives but might vary some depending on specific floor characteristics. It is important that contractor and customer always agree upon specifications prior to work, see section 2B for more guidance.

HUSQVARNA SUPERFLOOR™
EXPECTED SURFACE SPECIFICATIONS

PROCESS	ROUGHNESS (Ra)	GLOSS (GU)	DISTINCTNESS (DOI)	CPC Exposure Class	CPC Appearance Level
PLATINUM	<0,4µm (16µin)	>50	>50	C	>=3
GOLD	<0,4µm (16µin)	>50	>50	B	>=3
SATIN	<1,0µm (40µin)	>20	>20	B	>=2
SILVER	<4,0µm (150µin)	<10	<10	C	<=1

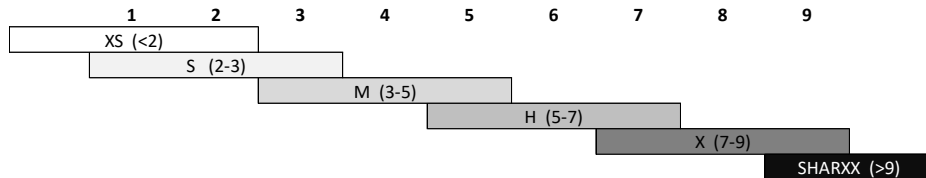
Individual descriptions (Requirement documents) for each SUPERFLOOR process can also be found at Husqvarna’s website <https://www.husqvarnaconstruction.com/int/floor-solutions/guides-and-documents/>

10. FIELD QUALITY CONTROL

A. Concrete hardness

Mohs scale of mineral hardness. Field testing: Use approved measuring device, such as “Moh’s hardness scratch test kit”

MOH's scale - and Husqvarna Metal bonded diamond tool type recommendations



B. Surface Profile Readings, Roughness Average (Ra):

DIN EN ISO 4287 - Geometrical Product Specifications (GPS) - Surface texture: Profile method - Terms, definitions and surface texture parameters.

CSDA-ST-115 - Measuring Concrete Micro Surface Texture

Field testing: Use approved measuring device, such as the mobile surface roughness tester “**MarSurf PS10**”

C. Specular Gloss (GU):

ASTM D523 – Standard Test Method for Specular Gloss.

Field testing: Use approved measuring device, such as the mobile surface quality Gloss, Haze and DOI meter “**Rhopoint IQ**”.

D. Distinction of Image (DOI):

ASTM 5767 - Standard Test Method for Instrumental Measurement of Distinctness-of-Image Gloss of Coating Surfaces.

Field testing: Use approved measuring device, such as the mobile surface quality Gloss, Haze and DOI meter “**Rhopoint IQ**”.

E. Coefficient of friction

ANSI A326.3 - Dynamic Coefficient Friction of Hard Surface Flooring.

Field Testing: Engage a certified **BOT3000E** tribometer operator to perform field testing to determine if polished concrete floor finish complies with specified dynamic coefficient of friction from a floor slipperiness risk point of view.

Or use any other device necessary to comply with other specified slip resistance standards, for example the BS EN 14231 “Natural Stone Test Method” using the British Pendulum Test equipment.

11. CLOSEOUT ACTIVITIES

A. PROTECTION

Covering: After completion of polishing, protect polished floors from subsequent construction activities with protective covering.

A newly produced SUPERFLOOR is sensitive to water being left on the surface, because during the grinding process we expose again fresh concrete that might not have been fully carbonized. This exposes again lime that, will mix with surface water and create a corrosive (alkaline) solution that will risk creating etch marks if left unattended.

For newly ground concrete floors we recommend to 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 polished SUPERFLOOR is not a sealed floor. It is still diffusion open, which is one of the benefits with these floors, to allow for ground moisture to evaporate.

B. MAINTENANCE

Husqvarna certified SUPERFLOOR Contractor shall provide Owner's designated personnel with proper Husqvarna SUPERFLOOR polished concrete maintenance guidelines.

A concrete floor that has been finished to a Husqvarna Superfloor™ 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 Husqvarna SUPERFLOOR™ maintenance instructions.

For daily cleaning, products from the Husqvarna Floor Maintenance system should be used, like Husqvarna Maintenance pads as well as the natural stone soap Clean & Protect, when applicable. See separate Maintenance instructions for Husqvarna SUPERFLOOR™ for more info.

END OF SECTION