



Husqvarna®



DURABLE CONCRETE FLOOR POLISHING

HIPERFLOOR® is a complete concrete surface finishing system and Husqvarna product brand. The HIPERFLOOR® system enhances the beauty, strength and abrasion resistance of the floor while reducing maintenance and costs. HIPERFLOOR® can radically transform a broad range of new and old constructions. With HIPERFLOOR®, Husqvarna offers first-class results from a premium brand with premium service.

PREMIUM FINISH

HIPERFLOOR® Premium finish fully exposes the concrete aggregate and has the most aesthetic appeal. Floor flatness, reflectivity and shine are of the highest primary concern. In addition, functionality, ease of cleaning and low maintenance cost are some of the many added benefits of the HIPERFLOOR® Premium Finish system.



HIPERFLOOR®

BENEFITS:

- ✓ Reflective and decorative finish
- ✓ Floor flatness
- ✓ Extremely high quality and durability
- ✓ Hygienic and easy to clean
- ✓ Exceptionally resistant to abrasion

PREMIUM FINISH

Process:

LOOK FOR THIS SYMBOL

Engaging a Husqvarna Accredited Contractor means the finished product is backed by Husqvarna's 10 Year Warranty.

To view the current list of Accredited Contractors visit:
www.husqvarnacp.com/au/campaigns/hiperfloor



This process is a dry polish system and we suggest the use of the below checklist to ensure effective polishing and dust management onsite. Warranty will only be applied to the finished HIPERFLOOR® product if genuine Husqvarna equipment, diamond tools and chemicals are used.



MATERIAL CHECKLIST

- Access to correct power
- Large Husqvarna Planetary Grinder (PG)
- Paired with correct Husqvarna dust management system
- Husqvarna diamond tools and chemicals

1. Coarse grind the concrete with either 20 or 30 grit diamonds to expose the aggregate (a full set of diamonds should be used to obtain a flat floor). The appropriate metal bond selection is critical to ensure economic diamond tooling costs and labour productivity. Wet grinding may also be appropriate.
2. Remove first-step scratches with 50 / 60 grit diamonds (again a full set should be used). If the concrete seems to have significantly more holes than usual you can grout at this stage with 50 / 60 grit diamonds. (the grouting process is explained in step 3) and this will ensure that all holes will be filled once you have completed step 3 with the 100 / 120 grit diamonds.
3. Remove second-step scratches with a half set of 100 / 120 grit diamonds and combine the grinding process with GM 3000 filling compound as follows:
 - I. Wet the concrete to remove the 'suction' / absorption from the concrete floor.
 - II. Apply GM 3000 to the floor using a broom. Approximate usage should be 5 litres per 25 m². Begin with 5-10 lineal metres only in front of the grinder to prevent the GM 3000 from drying out.
 - III. While still wet, run the machine with 100 / 120 grit diamonds through the wet GM 3000. When using the Husqvarna PG 690 or PG 830, set the heads in opposite directions and with the Disc Speed set at 5 and Head Speed at 5 - 7. The GM 3000 will combine with the dust created by the 100 / 120 grit diamonds and it will be forced into holes created by air-bubbles and extracted aggregate.
 - IV. Grind at operator speed to remove all the remaining GM 3000 residue. The floor should appear slightly 'blue' after completing an area. When using GM 3000, work in areas of 5 - 10 m² until a feel for the process has been established, then allow to dry before continuing with step 4.
4. Apply Hiperhard liberally with a very soft broom or sprayer, so that the concrete is saturated but without forming puddles. If spraying, make sure to follow with a broom to work the product into the pores of the concrete, approximate usage should be 5 litres per 25 m².
 - Once the Hiperhard has dried, a second coat may be required if the concrete is very soft and still absorbent spreading out any puddling with a soft broom. When applying one coat to hard concrete or two coats to porous concrete, the floor should always appear damp/wet for 15 - 20 minutes after the application of Hiperhard. If this is not the case, another coat is required.
 - Allow Hiperhard to dry completely before moving on to the next step. A period of 6 - 12 hours is recommended as a minimum to ensure a maximum cure of the Hiperhard product and curing time will vary significantly with extreme hot or cold temperatures

Note: We recommend the application of Hiperhard after the final metal bond step as the concrete is most porous after the metal bond diamonds. Hiperhard will penetrate into the concrete best following the metal bond step. This will ensure the hardest possible surface is achieved.

Note: We do not recommend removal of wet excess hardener with a squeegee or scrubber once it begins to gel off. For maximum saturation and hardening of the concrete surface, it is recommended that the hardener be left in contact with the concrete until completely dry.

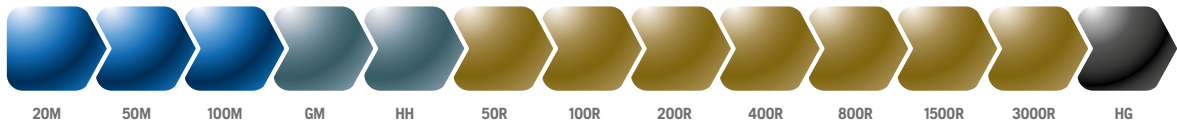
5. Remove excess cured / dry Hiperhard using Husqvarna 50 grit resin bond tools.
 - Apply a thin layer of Hiperhard with a microfibre applicator about 2 - 5 metres in front of the machine, ensuring that the dried Hiperhard has turned to a gel-like state. This will not only make the Husqvarna 50 grit resin more aggressive, but by reactivating any of the excess Hiperhard it will minimise the possibility of cured Hiperhard covering over the 100 / 120 grit metal bond scratches that are to be removed. To enhance the final gloss level, the same process can also be done before the 100 grit resin bond tools in step 4.
 - If this thin layer is too wet when grinding, there may be excessive wear of the resin bond polishing pads.

Ensure that any excess Hiperhard is removed completely. In its unreacted state, dry excess Hiperhard if left on the surface, can:

- Create brown/dark and unsightly patches in the floor when polished using dry resin polishing pads.
- Make the surface very slippery, as Hiperhard reactivates if it comes into contact with water.
- Create dull patches or 'clouds' in the finished product, as Hiperhard will not polish to the same degree as the harder concrete.

PREMIUM FINISH

Step-by-step:



Premium finish: M = Metal bond
GM = GM 3000
HH = Hiperhard
R = Resin bond
HG = Hiperguard Penetrating Sealer

If the use of the Husqvarna 50 grit resin bond tools is unsuccessful at removing excess Hiperhard (this would be the case if puddling Hiperhard was left to dry/cure on the surface), use Husqvarna 100 grit resin bond polishing pads in a semi-wet grinding fashion with water. Then move on to step 6 with Husqvarna 100 grit resin bond floor-polishing pads.

- The crossover from metal bond to resin bond is the most important stage of the polishing process as far as scratch removal is concerned. The longer the metal bond diamonds are used, the more chance scratches will be made in the floor by the metal bond step (as opposed to the diamond abrasive in the metal bond step).
- Resin bond diamond pads (generally) have significantly higher production rates than metal bond tools. The sooner you begin with resin bond diamonds, the more efficient the production rate.

Note: We do not recommend the use of metal bond diamond tools once the Hiperhard has been applied. Use of metal bond tools can remove too much of the densified surface, leaving an inconsistent end- result. Metal bond tools are more aggressive than resin bond tools and can create new holes / pits in the surface.

If the floor does not appear consistent in gloss / shade after step 5 is completed, a thin or 'enhance' layer of Hiperhard can be applied to the floor using a microfibre applicator. This layer should be just enough to wet the surface evenly without puddling. Allow the enhance layer to dry before continuing.

6. Continue the polishing process with Husqvarna 100 grit resin bond floor polishing pads.
 - A thin enhance coat of Hiperhard with a microfibre applicator about 2 - 5 metres in front of the machine can be applied to boost the final gloss levels.
7. Continue the polishing process with Husqvarna 200 grit resin bond floor polishing pads.
 - There is no significant benefit to be gained from applying an enhance coat of Hiperhard after this step.
8. Continue polishing with Husqvarna 400 grit resin bond polishing pads, there should be a sharp reflection developing at this stage.
9. - 11. Continue polishing with Husqvarna 800, 1500 and 3000 grit, resin bond polishing pads.

Note: We do not recommend the use of Husqvarna 3000 grit resin bond diamond tools in high traffic areas or near doorways that connect to an outdoor area. When the floor is wet or dirty these areas can become slippery. Use of the Husqvarna 3000 grit tools would be for a showroom floor finish only.

12. Apply 2 - 3 coats of Hiperguard Premium Enhance penetrating sealer using a microfibre floor sweeper, allowing time to dry between coats. The floor should be fully saturated without any excess to ensure all pores are filled. The use of Hiperguard is highly recommended to prevent contaminants from staining the floor. However, in some circumstances, and more so with the repair of previously highly contaminated surfaces, Hiperguard will show up previous staining beneath the surface as the concrete pores already having a contaminant in them.
13. Leave to cure fully for at least one hour or until touch dry and then buff off residual Hiperguard sealer with nylon buffing pads.

Note: The surface can be ground and polished to tailor to different levels of exposed aggregates and non exposed aggregates and to high or low gloss levels by adding or reducing steps.



HUSQVARNA 10 YR WARRANTY

Husqvarna Accredited Contractors are the only contractors that can have their work warranted by Husqvarna. This means the concrete has been treated with the HIPERFLOOR® chemicals, and ground with Husqvarna diamond tools under Husqvarna planetary grinders.

The polished concrete surface will not fade, dull or yellow, as long as ongoing cleaning and maintenance is carried out according to the HIPERFLOOR® Maintenance Guide.

Your certified HIPERFLOOR™ Contractor is:

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