



HiPERFLOOR™ is a complete concrete surface finishing system and a Husqvarna product brand.

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## DURABLE CONCRETE POLISHING

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### **COMMERCIAL FINISH**

A medium-gloss finish for semi-exposed and low-exposed aggregate floors. An indoor application for retail areas, shop fronts and indoor public spaces. By choosing the HiPERFLOOR™ Commercial Finish, the result is a floor that is functional, easy to clean and low maintenance whilst remaining aesthetically pleasing.



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**Benefits:**

- *Easy to clean and maintain*
- *Resistant to wear and spills*
- *Abrasion-resistant*
- *Slip-resistant*
- *Minimal lifetime cost*

## COMMERCIAL FINISH Process:

1. Using metal bond diamond tools, decontaminate the surface using either 60 grit or 120 grit diamonds. On a heavily used or 'dirty' concrete floor, 60 grit diamonds may be required first to decontaminate and level out large differences in the surface. If this is the case, the requirements for floor flatness and final appearance need to be taken into account as this step will affect the aggregate exposure. A half set should be used to follow the contours of the floor when wanting to minimise aggregate exposure.

Note: Minimal/low-exposure aggregate floors will often have an inconsistent end-result due to the unknown nature of the aggregate dispersion in the concrete floor. This is almost always out of the control of the grinder operator as it relates to the finish of the concrete pour and needs to be made known early on to the floor owner. Minimal/low exposure will not be achievable on a broomed finish concrete floor due to the abrasive nature of the surface finish.

Combine the grinding process with GM3000 filling compound as follows:

- I. Wet the concrete to remove the 'suction'/absorption from the concrete floor.
  - II. Apply GM3000 to the floor using a broom. Approximate usage should be 5 litres per 25 m<sup>2</sup> (1500 sq/ft per 5 gallon). Begin with 5-10 lineal metres (16-32 ft), only in front of the grinder to prevent the GM3000 from drying out.
  - III. While still wet, run the machine with 120 grit diamonds through the wet GM3000. When using the Husqvarna PG 680 or PG 820, set the heads in the opposite direction and with the Disc Speed set at 5 and Head Speed at 5-7. The GM3000 will combine with the dust created by the 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 remaining GM3000 residue. The floor should appear slightly 'blue' after completing an area. When using GM3000, work in areas of 5-10 m<sup>2</sup> (50-100 sq/ft) until a feel for the process has been established, then allow the floor to dry before moving on to step 4.
2. Apply Hiperhard liberally with a very soft broom or sprayer. If spraying, make sure you follow with a broom to work the product into the pores of the concrete. Apply Hiperhard liberally so that the concrete is saturated but without forming puddles. Approximate usage should be 5 litres per 25 m<sup>2</sup> (1500 sq/ft per 5 gallon).
    - Once the Hiperhard has dried, a second coat may be required if the concrete is very soft and still absorbent. Again, spread out any puddling using 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 obtain a maximum cure of the Hiperhard product. The curing time will vary significantly with extreme temperatures – in cold environments it will take longer and in warmer environments it will be shorter.

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.

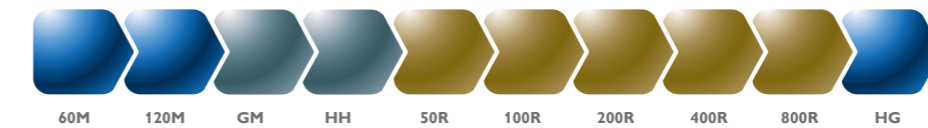
3. Remove excess cured/dry Hiperhard with P1242 50 grit resin bond tools
  - Apply a thin layer of Hiperhard with a microfibre applicator about 2-5 metres (5-20 ft) in front of the machine, ensuring that the dried Hiperhard has turned to a gel-like state. This will not only make the P1242 50 grit resin more aggressive, but by reactivating any of the excess Hiperhard the possibility of cured Hiperhard covering over the 120 grit metal bond scratches we want to remove will be minimised.
  - If this thin layer is too wet when grinding, excessive wear of the resin bond polishing pads may occur.

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

- It will create brown/dark and unsightly patches in the floor when polished using dry resin polishing pads.
- If it comes into contact with water it will reactivate and become very slippery.
- It will cause dull patches or 'clouds' in the finished product as Hiperhard will not polish up to the same degree as the harder concrete.

If the use of the P1242 50 grit resin bond tools is unsuccessful at removing excess Hiperhard (this would be the case if puddling Hiperhard is left to dry/cure on the surface), use P1183 100 grit resin bond polishing pads in a semi-wet grinding fashion with water. Then move on to step 4 with P1243 100 grit resin bond floor-polishing pads.

## COMMERCIAL FINISH Step-by-step:



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

Note: When polishing concrete, we do not recommend grinding higher than 120 grit metal bond tools.

- 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 in 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.

4. Continue the polishing process with P1243 100 grit resin bond floor-polishing pads.
5. Continue the polishing process with P1244 200 grit resin bond floor-polishing pads.
  - There is no significant benefit to be gained from applying an enhanced coat of Hiperhard after this step.
6. Continue the polishing process with P1245 400 grit resin bond floor-polishing pads.
  - You should notice a sharp reflection developing at this stage
7. Continue the polishing process with P1246 800 grit resin bond floor-polishing pads.
8. 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 but 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 due to the concrete pores already having a contaminant in them.
9. 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 omitting steps.