

APPROVED GRINDING AND POLISHING SYSTEMS FOR FOOD SERVICE/ FOOD PREPARATION ENVIRONMENTS

REFERENCE PROJECTS AND PHOTOGRAPHS DISPLAYING HIGH QUALITY GRINDING AND POLISHING FREE FROM GRINDING MARKS FOR FULLY EXPOSED AGGREGATE WITH MID GLOSS IN A FOOD SERVICE OR FOOD SALES ENVIRONMENT

Please see Appendix 1

DETAILED METHODOLOGY STATEMENT INDICATING FIRST GRIND TO EXPOSE AGGREGATE. REMOVAL OF **GRINDING MARKS, PROCESS OF RE-GROUT, DENSIFICATION, POLISHING AND RECOMMENDATIONS FOR** MAINTENANCE AND CLEANING

We are accredited installers of the Husqvarna Hiperfloor system. Please see Appendix 2 for details and floor maintenance brochure

THE METHODOLOGY STATEMENT SHOULD BE ACCOMPANIED WITH PROGRAMME DETAILS DESCRIBING

DAILY PRODUCTION RATES FOR EACH STAGE OF GRINDING AND POLISHING

We are happy to discuss this when plans and areas are confirmed

THE METHODOLOGY STATEMENTS SHOULD BE ACCOMPANIED WITH A LIST OF EQUIPMENT ANTICIPATED

TO BE UTILIZED AND DETAILS OF MANAGEMENT OF GRINDING WASTE REMOVAL

We use Husqvarna and HTC Grinders and vacuum systems. We have the latest Husqvarna PG830RC.

All dust is bagged on site in our filtration bagging systems and placed in a skip.

A STATEMENT OF ANTICIPATED QUANTITY OF GRINDING WASTE FOR RUBBISH REMOVAL

We estimate anywhere from 3 to 6 tonne of waste depending on how the floor has been placed

ALLOWANCE FOR GRINDING DEPTH MUST BE DISCLOSED AND THE METHOD TO ESTABLISH THE ACTUAL

DEPTH OF GRINDING REQUIRED FOR SITE CONDITIONS

This depth will be anywhere from 3-5mm depending on how the floor has been placed. The floor needs to be cut down with grinders to obtain even exposure. We need to obtain even exposure within reason

DESCRIBE THE ANTICIPATED TYPES OF GRINDING DISCS FOR EACH STAGE OF GRINDING AND POLISHING TO

ASSIST THE ASSESSMENT OF TENDER SUBMISSIONS

Please see attached the Hiperfloor system Appendix 2 – this explains the process of using metal bond and resin bond segments to cut and polish the floor

TOPICAL APPLICATIONS OF SEALERS

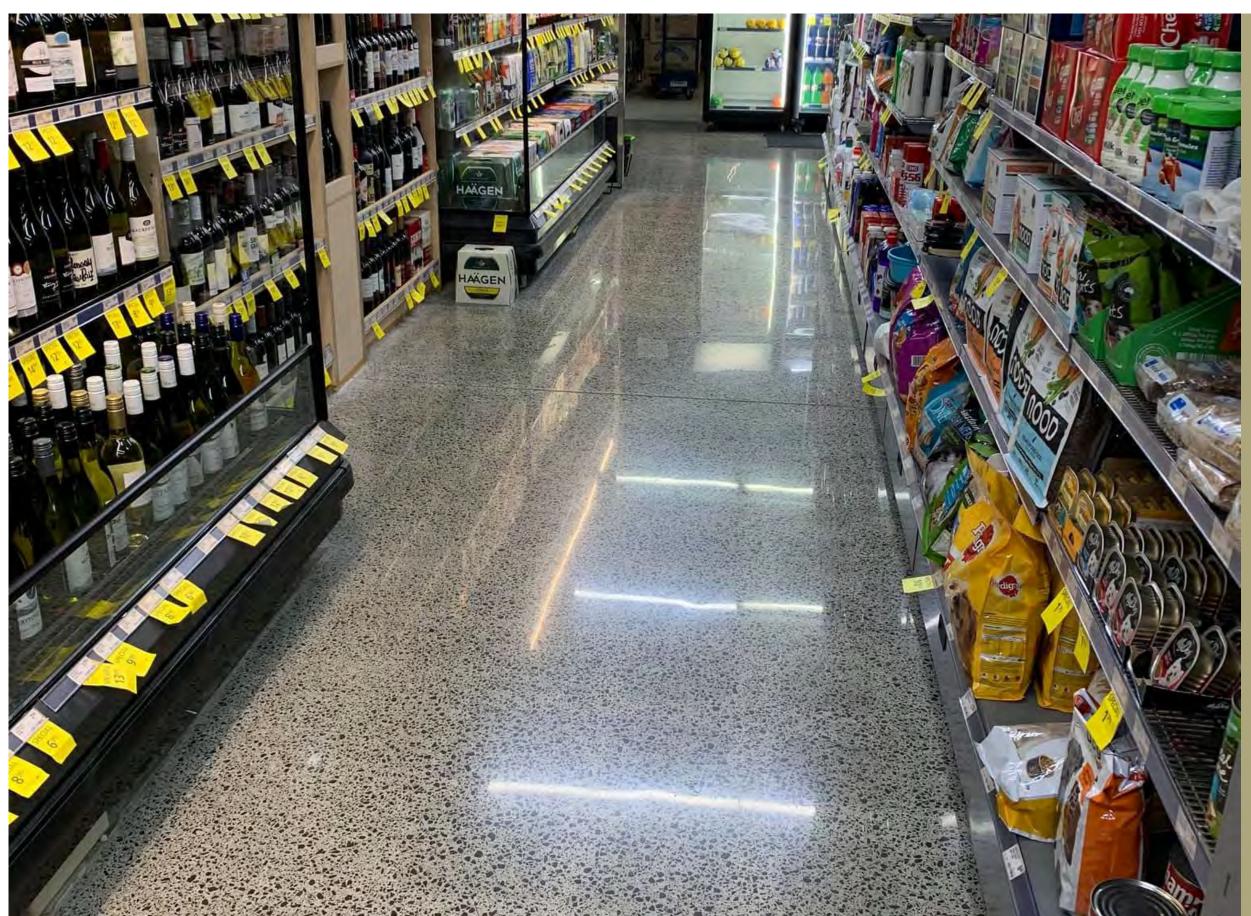
NZ Grinders does not use topical sealers for diamond polished floors. The Husqvarna system recommends Hiperfloor "Green Seal" or equivalent – this is a water based nontopical product that provides a stain guard



APPENDIX 1 REFERENCE PROJECTS & PHOTOGRAPHS

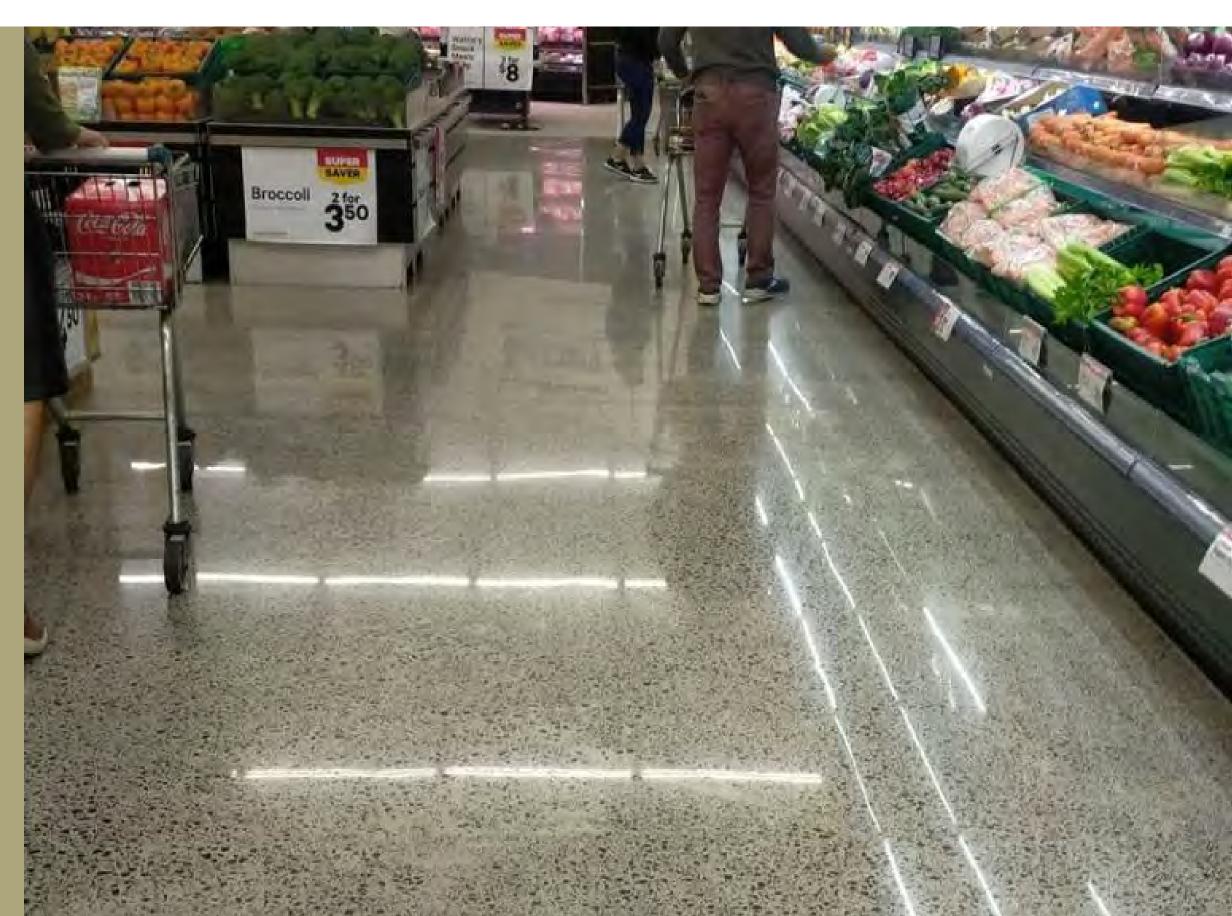
FULL EXPOSURE FINISH

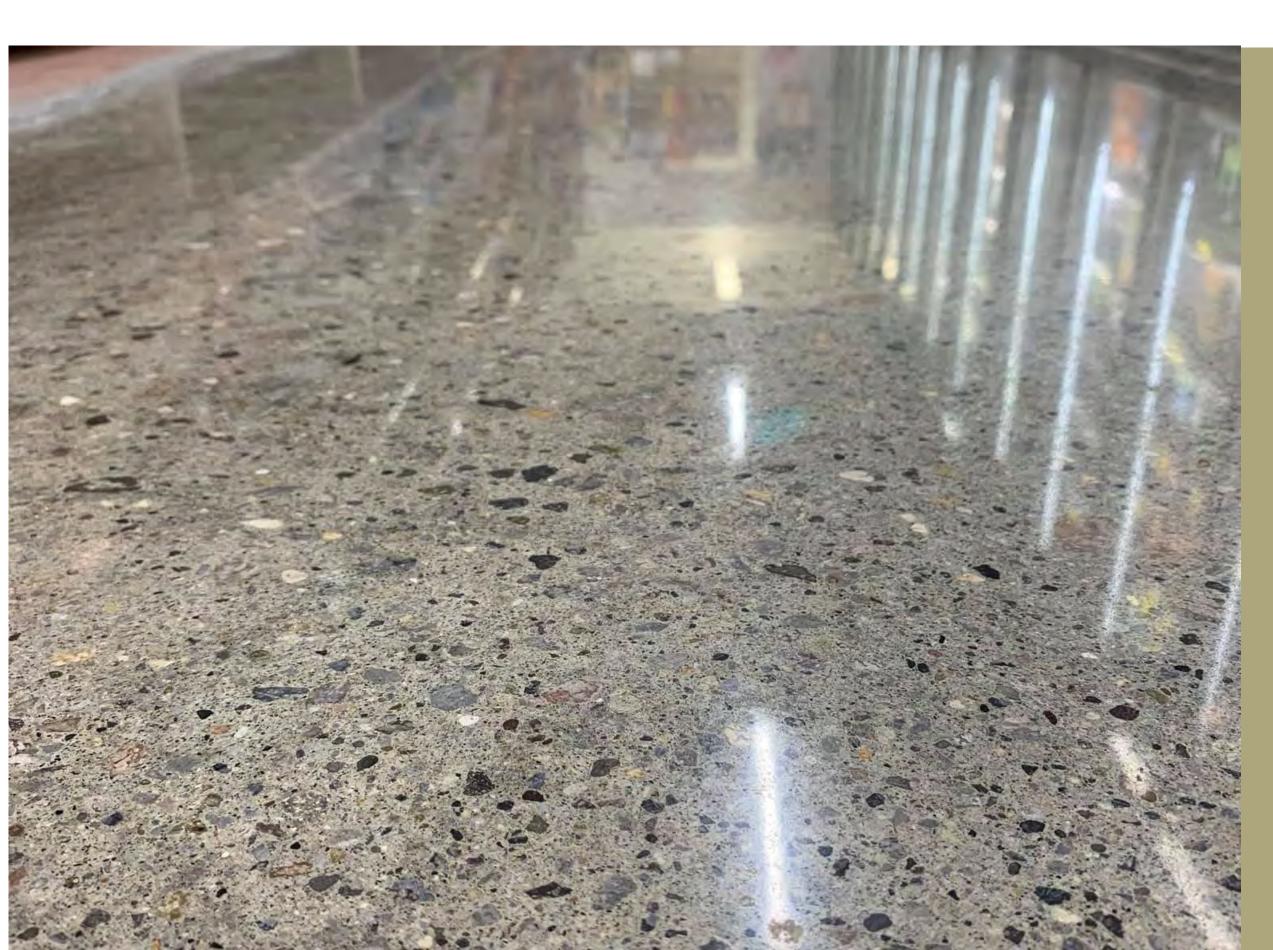






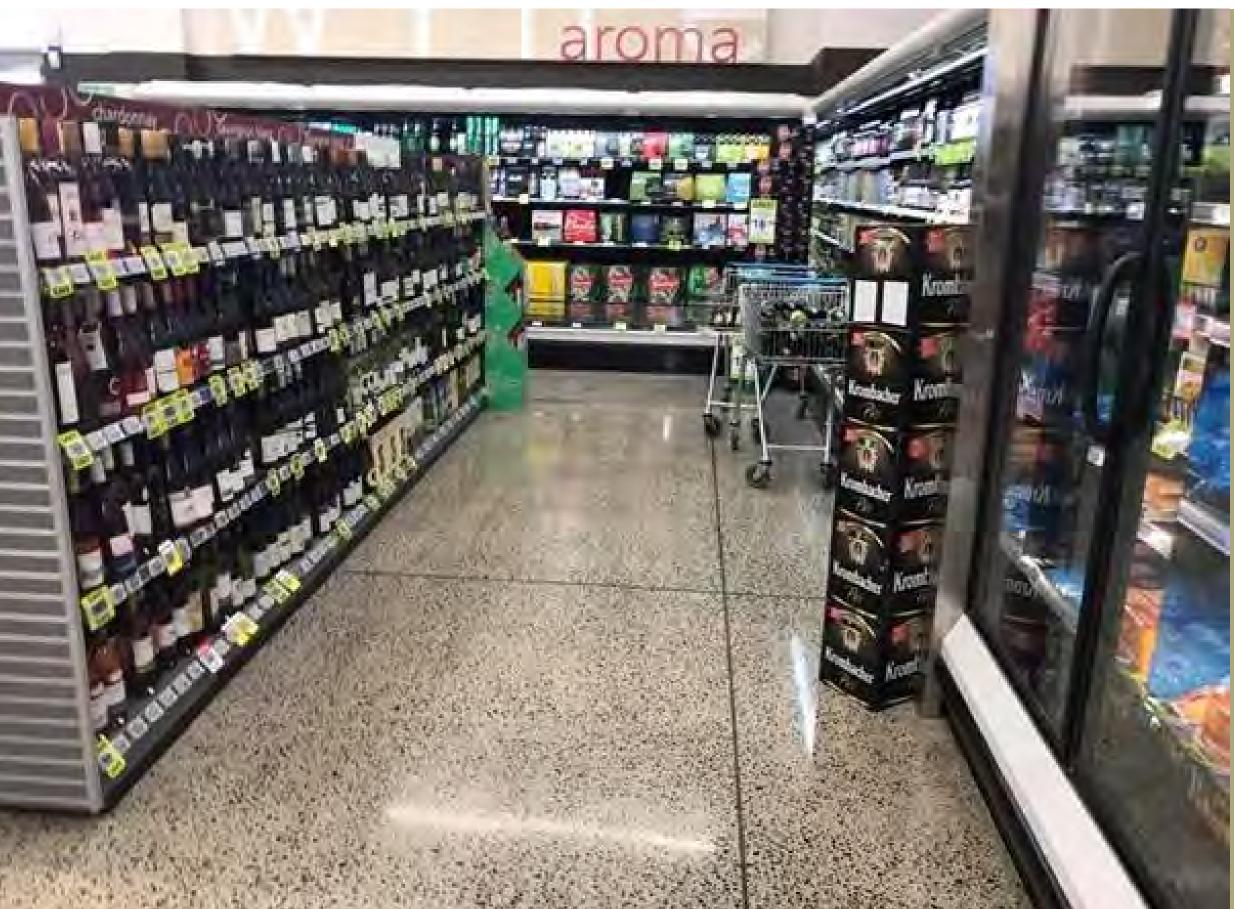
FULL EXPOSURE FINISH



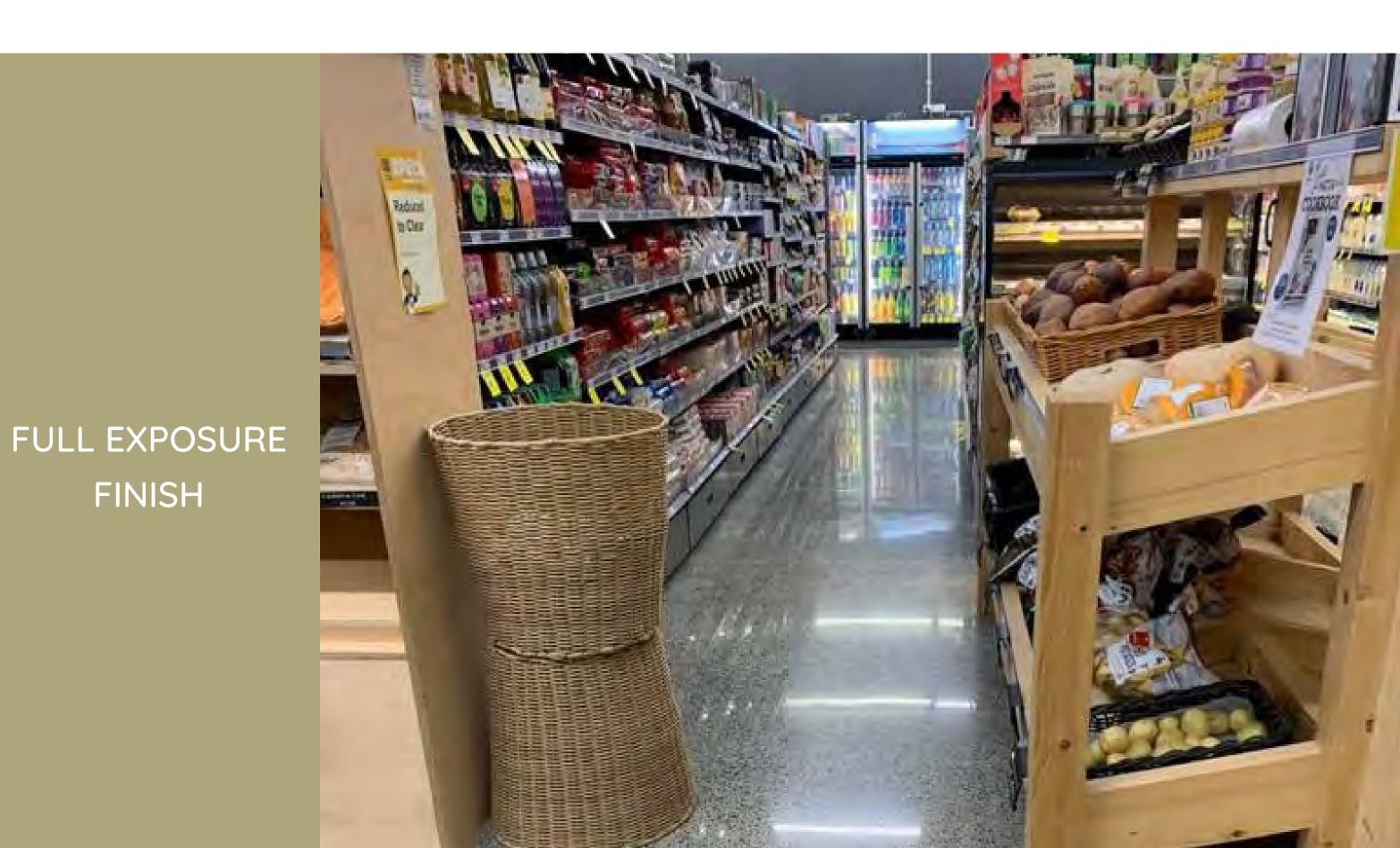


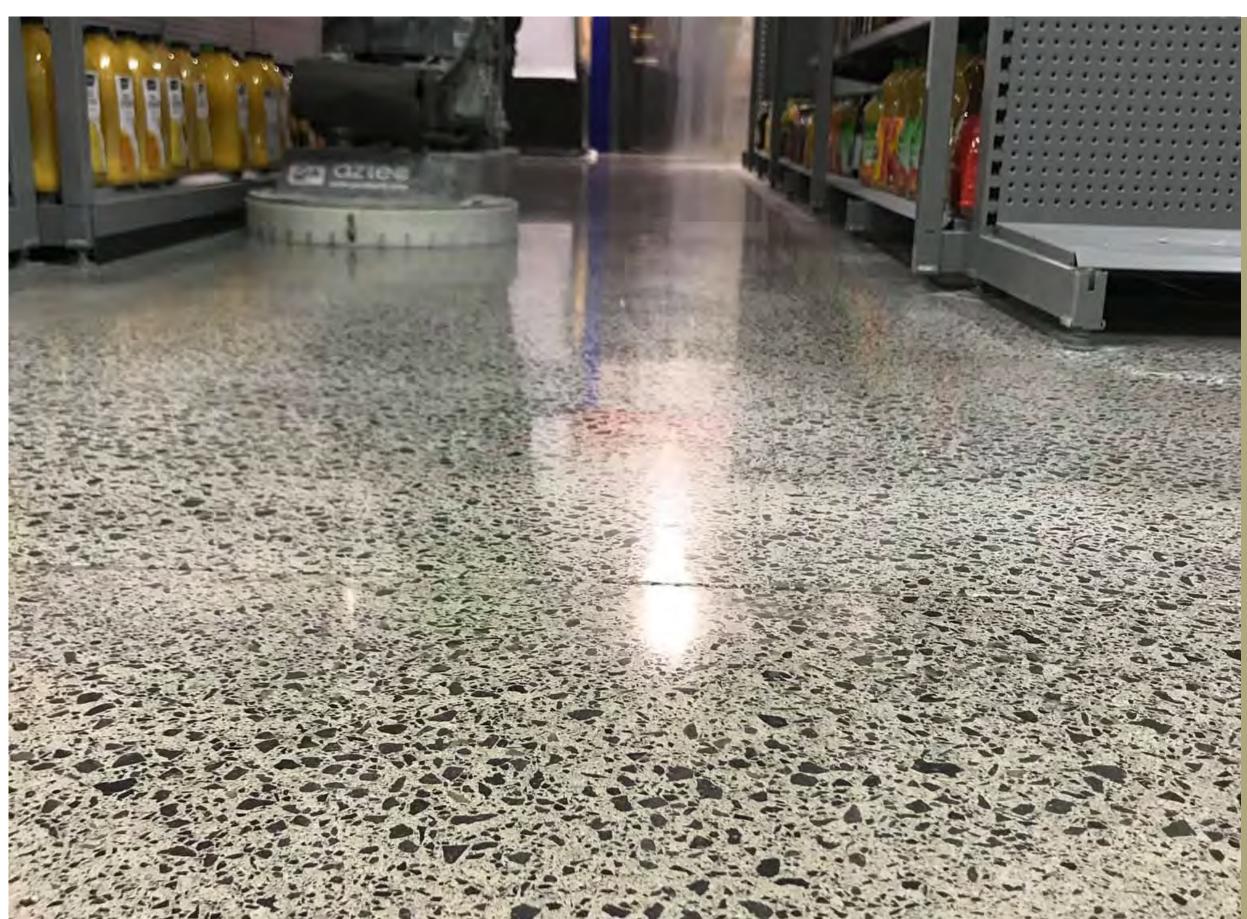














APPENDIX 2 DETAILED METHODOLOGY STATEMENT



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 firstclass results from a premium brand with premium service.

HIPERFLOOR

PREMIUM FINISH

A decorative, high-gloss finish for exposed aggregate floors. HiPERFLOOR " Premium Finish is an indoor application for showrooms, high-end real estate and areas where aesthetic properties that include include flatness and reflectivity of the floor are a top priority. In addition to a reflective and decorative floor, functionality, ease of cleaning and low maintenance cost are some of the many added benefits of the HiPERFLOOR." Premium Finish system.

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Husqvarna

BENEFITS:

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



PREMIUM FINISH Process:

- 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 assure economic diamond tooling costs and labour productivity. Wet grinding may also be appropriate.
- 2. Remove first-step scratches with 50 get 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 get 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 get diamonds.
- Remove second-step scratches with a half set of 100 grit diamonds and combine the grinding process with GM3000 filling compound as follows:

Combine the grinding process with GM3000 filling compound as follows:

- Wet the concrete to reprove the succide/atsosption from the concrete line.
- Apply GM3000 to the fine using a broom. Approximate usage should be 5 litres per 25 m2 (1500 sp/h per 5 galim). Begin with 5-30 lines) metres (16-32 ti) only in front of the grinder to prevent the GM3000 from drying aut.
- While still wel, run the machine with 100 pril diamonds through the well GM3000. When using the Ausprania PG 680 or PG 820 set the heads in opposite directions and with the Disc Spend set at 5 and Head Spend at 5-7. The GM3000 will cambrase with the dust created by the 100 pril diamonds and II will be forced into holes created by alt-Butbles and extracted appregate.
- IV Grind at operator speed to remove all the remaining GM3000 residue. The floor should appear slightly blue after completing an area. When using GM3000, work in areas of 5-10 m2 (50-100 sq/ft) until a feel for the process has been established, then allow to dry before continuing with slep 4.
- Apply Hiperhard liberally with a very soft broom or sprayer. If spraying, make sure to 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 m2 (1500 sq/ft per 5 gallon).
 - Once the Hiperhard has dried, a second cost may be required if the concrete is very soft and still absorbent. Again, spread
 out any puddling with a soft broam. 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 Hipeshard to dry completely before moving on to the next step. A period of € 12 hours is recommended as a
 minimum to ensure a maximum cure of the Hipeshard product. The curving 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 Hiperisand after the final metal bond step as the concrete is most porous after the metal bond diamonds. Hiperhand will penetrate into the controle-bent following the metal bond step. This will ensure the hardest possible surface is achieved.

Note: We do not encommend removal all wet excess hardware with a squitegee or scrubber once it begins to get off. For innovament saturation and hardware of the concrete surface. It is recommended that the hardware be left in contact with the concrete antif completely dry.

- 5. Remove excess cured/dry Hiperhard using P1242 50 grit resin bond fools.
 - 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 it will minimise the possibility of cured Hiperhard covering over the 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 P1243
 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 paids.
 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 duil patches or 'clouds' in the firished product as Hiperhard will not polish up to the same degree as the barder 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 was 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 6 with P1243.100 grit resin bond foor-polishing pads.

Note: When polishing concrete, we do not recommend granding higher than VOD grit metal band tanil



CONTRACTO

TREATMENT

Step-by-step:

PREMIUM FINISH

CONSTRAINED.

BURNING STREET, TREATMENT

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Premium finish: M = Metal bond GM = GM 3000 HH = Hiperhard R = Resin bond

HG = Hiperguard Penetrating Sealer

- 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 Hiperbard 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 P1243 100 grit resin bond floor polishing pads.

- A thin enhance cost of Hiperhard Lithium with a microfibre applicator about 2-5 metres (5-20 ft) in front of the machine can be applied to boost the final gloss levels.

7. Continue the polishing process with P1244 200 or FP40 200 grit resin band floor polishing pads.

- A thin enhance cost of Hiperhard Lithium with a microfibre applicator about 2-5 metres (5-20 ft) in front of the machine can be applied to boost the final gloss levels.

- 8. Continue the polishing process with P1245 400 or FP40 400 grit resin bond floor-polishing pads. - You should notice a sharp refection developing at this stage
- 9. Continue the polishing process with P1246 800 or FP40 800 grif resin bond faxor-polishing gads:
- 10 Continue the polishing process with P1247 1500 or FP40 1500 grit resin bond floor-polishing pads.
- 11 Continue the polishing process with P1248 3000 or FP40 3000 grit resin bond floor-polishing pads.

Note: We do not recommend the use of P1248 3000 or FP40 3000 get resci bond diamond books in high traffic areas to near door says that Lock nect to an outriber area. When the floor is well or dirty friend areas can become slippery. Use of the 3000 grit tools would be for a showroom floor linish only.

- 12. Apply 2 3 coats of Hiperguard Enhance Plus penetrating sealer using a microfibre floor sweeper, wet-on-wet application. 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 unitil touch dry and then buff off residual Hiperguard sealer with nyion buffing pads.

Note: The starlate can be groupd and polished to failor to different levels of exposed appropries and not exposed appropries and to high or low gioss levels by adding to ommitting steps.



Caring for your new polished concrete floor



NZ GRINDERS 59 AERODROME RD MT MAUNGANUI, TAURANGA

HOW TO CARE FOR YOR NEW FLOORS:

- Dust mop the floor daily with a microfiber pad
- If wet mopping the floor, always use clean water and clean mops
- Clean Spills Immediately
- Never use cleaners with chemicals - only use a neutral ph cleaner

Questions? Call Us

XPOS

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