

MIRAFLOOR

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POLISHED CONCRETE SYSTEM Six steps to the perfect finish



The Mirafloor System uses premium products that have been designed not only to be easy to use, but also time and cost-effective.

Developed over 20 years of research and continuous improvement, Mirafloor offers userfriendly products and systems which enhance and protect the natural look of concrete in any environment.

With a proven track record nationwide, our solutions have been tested in the field and are trusted by contractors, architects and suppliers for their quality results and versatility of finish.

Mirafloor's polished concrete systems and products solve common problems in a simple way, minimise labour and deliver superior results that stand the test of time.



VULK is proud to partner with TYROLIT Australia, bringing the combined benefits of years of technical and on-site know-how to further enhance concrete flooring technology in the Australian market. The TYROLIT range of performance diamond tooling is complimentary to the Mirafloor systems and processes.



It's easy when you know how.

The Mirafloor polished concrete system is a six-step process, ideal for architectural, commercial, industrial, residential and retail projects.

Step One: Initial GrindingStep Two: Grouting ProcessStep Three: Densification processprior to polishingStep Four: D-Rub Process of RefinementStep Five: Final Polishing ProcessStep Six: Sealer Application



Mirafloor Polished Concrete System.

Mirafloor by VULK delivers superior flooring results that are both beautiful and high performing.

Mirafloor is a premium polished concrete system for luxury retail and domestic environments.

As concrete is a natural raw material, and no two floors are the same, the Mirafloor system has a range of variations and sealers based on the specific requirements of the project at hand.

The Mirafloor Polished Concrete system has been designed by subcontractors with extensive industry experience. Mirafloor transforms and enhances structural concrete into an attractive and durable surface and can be used in conjunction with other flooring substrates such as concrete, stone, terrazzo and more.







Durable Abrasion, stain and scratch-resistant



High aesthetics Refined surface finish, delivering high-end results



Low lifecycle cost Repolish and renew the floor over and over again



Customisable Achieving your desired look is simple



Sustainable No need for traditional floor coverings

Easy and low-cost maintenance Cleaning is easy using standard cleaning equipment and eco-friendly chemicals

Mirafloor Industrial System.

Designed specifically for big-box retail, distribution warehouses and other storage facilities, the Mirafloor Industrial system is a cost effective flooring solution, providing increased abrasion resistance and reflectiveness to the surface of the concrete.

If you're looking for an industrial concrete treatment that protects your most valuable asset and ensures it stands the test of time, look no further than Mirafloor Industrial.

Cost effective solution for large commercial flooring.



Step One: Initial Grinding



As well as providing the foundation for a ultimate finish, the initial grinding stage gives you the opportunity to choose your look: Decorative, Minimalist or Industrial.

DECORATIVE EXPOSURE

Uncover the natural beauty of aggregates within the substrate.

Full Exposure

Grind concrete with a 3-phase planetary grinder with #25-#30 TYROLIT metal bond diamonds to achieve full exposure of aggregate.

Medium Exposure

- Grind concrete with a 3-phase planetary grinder with #25-#30 TYROLIT metal bond diamonds to achieve an approximate 50:50 exposure of coarse aggregate to fine aggregate.
- Removal of 25/30# grit coarse scratches with #60-#80 TYROLIT metal bond diamonds.

MINIMAL EXPOSURE

For a simply refined architectural look.

Dry Process

- Grind concrete to 1-2mm with a 3-phase planetary grinder with 25/30# TYROLIT metal bond diamonds to expose predominantly surface fines only.
- Removal of 25/30# grit scratch pattern with #60-#80 TYROLIT grit metal bond diamonds and vacuum clean.

Wet Process

- Grind concrete to 1-2mm with a 3-phase planetary grinder with #50 TYROLIT BT(L) WET resin bond diamond while using a continuous flow of water underneath the grinder to expose predominantly surface fines.
- Removal with a wet vacuum while slurry waste is wet to ensure all pits/ pores are free of slurry.

INDUSTRIAL

Maximise the performance and aesthetics of hard trowel finished concrete surfaces.

Wet Process

- Ensure a continous flow of water to the grinder head.
- Polish surface with 3-phase planetary grinder with #200 TYROLIT BT(L) WET resin bond diamonds aiming to polish the hard, smooth trowel finish and remove fine surface laitance.
- Remove the slurry with a wet vacuum before it dries to ensure all pits/pores are free of slurry



Step Two: Grouting Process



Remove imperfections and create a seamless surface, prior to moving to the polishing phase.

- Pre-dampen the concrete to a puddle free appearance.
- Using an industrial pump sprayer, apply the MIRABIND liberally to the area 3-4 metres in front of the grinding machine, with an effective working area of approximately 6-10m2. Use a soft-bristled broom to spread the MIRABIND evenly across the surface.
- While MIRABIND is still wet, grind the surface with TYROLIT #50 grit Hybrid X puck diamonds at a medium speed.
- Dust from the grinding process will mix with the MIRABIND to create slurry that will fill holes and imperfections in the concrete. Continue grinding at an effective speed until the excess is removed from the surface and repeat as required.
- Remove excess MIRABIND from edges using a TYROLIT #50 Resin Hand Pad on 5-inch tool.
- Allow the surface to completely dry before gently sweeping to remove any excess debris ready for application of MIRAHARD Densifier.

Tip - If shallow depressions still remain, change to a one step finer grit diamond and follow the process steps until satisfactory filling is achieved.



MIRABIND



A water-based binding agent and grouting polymer to fill pores, pin holes and minor imperfections.

- Strong adhesion
- Low VOC
- User-friendly
- Economical
- Extends the life of concrete flooring



Step Three: Densification process prior to polishing



Densification not only gives you extra tough, durable floors, it also provides the perfect substrate, ready for polishing to your desired gloss level.

DECORATIVE EXPOSURE & MINIMAL EXPOSURE FLOORS

- Apply a liberal coat of MIRAHARD using an industrial pump sprayer, ensuring the product doesn't pool.
- Use a microfibre mop or soft broom to spread MIRAHARD evenly over the surface and to work it into the pores of the concrete, keeping the area wet for 20 minutes.
- MIRAHARD should be reapplied until the concrete no longer absorbs it. At this point, allow a drying time of at least 8 hours before continuing with the polishing process or exposure to traffic.

INDUSTRIAL BURNISHED FINISH FLOORS

- Application of MIRAHARDEN PLUS to the substrate after #200 resin bond preparation.
- Using a low-pressure sprayer, apply MIRAHARDEN PLUS evenly to the surface ensuring to avoid producing puddles. The treated surfaces should stay wet for 5-10 minutes following the initial application. Reapply to areas of greater porosity that dry quickly.



MIRAHARD



Potassium silicate densifier for micro-grouting of polished concrete and hardening of external concrete pavements.

- Increases the surface hardness
- Enhances surface appearance
- Promotes longevity
- Easy to use
- Economical
- Environmentally safe



Step Four: D-Rub Process of Refinement



The D-rub process further refines the surface by micro grouting and densification, which adds durability and gloss, taking the floor to the next level.

Polish floor with resin bond diamond pucks after applying a thin mist coat of MIRAHARD in the path of the machine.

#100 TYROLIT BT(L) Resin #200 TYROLIT BT(L) Resin #400 TYROLIT BT(L) Resin

- A further spiff coat can be undertaken using a thin application of MIRAHARDEN PLUS without excess at #800 TYROLIT Resin.
- Ensure to polish edges progressively with each grit after completing the machine polishing using 5" TYROLIT resin hand pads on hand polishing tool (i.e #200 hand pad after #100 machine pass).



MIRAHARDEN PLUS



() Water based

Lithium Silicate hardener for densifying and enhancing concrete surfaces.

- Increases abrasion resistance
- Eliminates dusting
- Reduces water absorption and penetration
- UV stable and low VOC
- Cost-effective
- Quick drying
- Environmentally safe
- Enhances colour and light reflectivity



Step Five: Final Polishing Process



During the final polishing process, choose the combination of tools and products to give you the precise finish you're looking for: low, mid or high gloss.

POLISHING

Polish floor to high-gloss level using TYROLIT resin puck. Commence polishing with one grit higher than the final D-RUB pass.

#400 Resin #800 Resin #1500 Resin/Finishing Pad #3000 Resin/Finishing Pad

After completing the final pass using the resin pucks, it is recommended to finish the polishing with the corresponding TYROLIT SS finishing pad with weights back i.e., #800 TYROLIT SS finishing pad pass after the #800 resin puck for the ultimate preparation.

The TYROLIT SS finishing pads may be used at #1500 and #3000 without the proceeding resin puck pass with excellent results.

CUSTOMISE FLOOR GLOSS LEVELS

Low Gloss

Cease polishing at #100 TYROLIT BT(L) resin puck, followed by #100 TYROLIT SS finishing pad and proceed to sealer application as per product TDS sheet.

Mid Gloss

Cease polishing at #400 followed by #400 finishing pad and proceed to sealer application as per product TDS sheet.

High Gloss

Polish floor though to #800 TYROLIT resin puck, #1500 TYROLIT resin puck followed by #3000 TYROLIT SS finishing pad and proceed to sealer application as per product TDS sheet.

Step Six: Sealer Application



Choose from the Mirafloor range of sealers - including internal and external sealers, with natural or colour enhancing finishes - to protect your finished floor.



MIRASEAL ENHANCE

Colour enhancing penetrating sealer for protection of refined polished concrete, natural stone, and masonry surfaces. Suitable for both internal and external uses.

Reduced Colour Internal \mathbf{V} enhancing slip use Solvent External (á) Ŀ. use based

MIRASEAL NATURAL

A clear, penetrating, low-viscosity solvent-based sealer with a natural finish. Ideal for mechanically-polished, honed, and exposed architectural concrete, as well as footpaths, masonry, benchtops, and a wide range of other indoor and outdoor uses.



MIRASEAL X

Solvent-based siloxane-acrylic resin-blend sealer, used to enhance the natural colour of concrete, masonry, and natural stone materials. The best choice for sealing honed concrete, external pavements, exposed architectural concrete, and natural or artificial stone.

> External use

(1)	Reduced slip	()	Enhancing finish	
	Solvent based			

Make sure to follow the product-specific instructions in the Technical Data Sheet. Refer to VULK.com.au for more information or contact us at enquiries@vulk.com.au.







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