

AQURON 1000

SUPERGRIND SYSTEM



TOP QUALITY DIAMOND POLISHED CONCRETE FLOORS USING AQURON SOLUTIONS

- High Durability
- Easy Maintenance
- Attractive Appearance
- Environmentally Safe



DURABILITY & FINAL FINISH FOR POLISHED CONCRETE FLOORS

TREATING WITH AQURON SOLUTIONS AND DIAMOND POLISHING

Treating the Slab with AQURON 1000

AQURON 1000 is a deep penetrating, non-toxic, water based solution which forms an insoluble calcium silicate gel within the concrete matrix.

AQURON treatment provides hardening, anti-dusting and enhanced paste-to-aggregate adhesion which is essential for minimising aggregate pop-outs and pit marks which may occur during grinding.

The AQURON within the matrix is also an important base for the sheen which is achieved during the final honing and polishing stage.

The ideal time for applying AQURON 1000 to new concrete is directly after completion of powertrowelling. As AQURON Solutions are renowned for highly effective curing, shrinkage cracking and slab curl will be greatly reduced and the end result will be more pleasing.



APPLYING AQURON 1000 TO A FRESH SLAB

complies to moisture retention requirements of ASTM C309

Diamond Grinding and Polishing

After AQURON 1000 has been applied, diamond grinding and honing techniques offer either exposed aggregate or plain polished concrete finishes.

For an exposed aggregate appearance, the grinding process begins 7-28 days after AQURON curing. Specialised grinding machines expose the aggregate by cutting the surface in even passes. It is recommended that the client should visit the site at this stage so that the desired amount of aggregate exposure may be determined.

Shrinkage cracking and slab curl can be further reduced by adding AQURON 300 to the original mix. (See back page for further details). Colour and type of aggregate should be sourced and selected well before concrete placement.

Once the desired aggregate appearance has been achieved, the concrete surface is polished to a desired gloss level by means of a high-tech honing process.

Should you require a plain or non-exposed aggregate appearance, the grinding stage is simply left out.

The final polished appearance for both types of finishes can then be further enhanced by applying CRETEPOLISH MAX.



EXPOSED AGGREGATE POLISHED FINISH



HONED OR PLAIN POLISHED CONCRETE

MAINTENANCE AND FINISHING OPTIONS

Enhancing Sheen and Stain Resistance with CRETEPOLISH MAX

Further sheen enhancement and stain resistance for your polished concrete floor can be achieved by simply applying CRETEPOLISH MAX with a micro-fibre pad.

CRETEPOLISH MAX can be reapplied easily and economically as a part of the general floor cleaning program.

Maintaining your Polished Concrete Floor

Regular cleaning using standard floor detergents and micro-fibre pads followed by buffing will be all that is needed to maintain the cleanliness and sheen.

Your polished concrete floor will be highly durable and resistant to wear and dusting for many years.



EXPOSED AGGREGATE WITH CRETEPOLISH MAX

Finishing with Film-Forming Coatings

You may wish to apply a film-forming coating to your floor to achieve a shiny 'wet look' with total stain proofing.

Many hard wearing clear coatings are available which can be applied to exposed aggregate concrete surfaces.

If you select a coating, the diamond honing process should finish off with a relatively coarse grit in order to provide a surface key for adhesion.

Installing an AQURON 2000 moisture barrier in the concrete before applying the coating will ensure its long term success.

All film forming coatings, no matter how hard wearing, will require future recoating especially in high traffic areas.



APPLYING A FILM FORMING COATING



AQURON 1000 SUPERGRIND SYSTEM

GRINDING AND POLISHING EXISTING CONCRETE FLOORS



AN OLD FLOOR WITH EXPOSED AGGREGATE

Existing Concrete Floors

Existing and even very old concrete floors can be treated with AQURON and diamond honed to present an exposed aggregate, polished appearance.

Existing concrete should be first treated with AQURON 2000 to purge internal contamination and provide moisture proofing. AQURON 2000 will also provide the necessary hardening and anti-dusting properties in preparation for diamond honing.

Results may vary with existing concrete and it is wise therefore to carry out a sample in an inconspicuous place to determine whether results will be satisfactory.

OPTIMISING THE MIX QUALITY AND USING RECYCLED MATERIALS

Using AQURON 300 in the Mix

AQURON 300 Mix Water Conditioner is a non-toxic, environmentally friendly colloidal liquid which can be added to your concrete mix during batching to minimise risks of shrinkage cracking and slab curl.

AQURON 300 provides a more cohesive and workable concrete mix. The quality, impermeability and strength of the floor are therefore enhanced from the time of placement through to the completion of the final polishing.

Using Recycled Materials in the Mix

AQURON 300 Mix Water Conditioner is compatible with concrete containing normal quantities of recycled materials such as crushed concrete and fly ash.

AQURON 300, when used in concrete containing these materials, will produce superior results by reducing drying shrinkage and other adverse effects usually associated with these eco-saving mix designs.



DISCHARGING AN AQURON 300 CONCRETE MIX



Innovations for Concrete & Construction

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