



Spec Floors

Spectacular Concrete Finishes

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The Husqvarna HiPERFLOOR™ System

HiPERFLOOR™ is the combination of three different technologies to enable us to use concrete as a wear-resistant surface (not possible until recently). By combining advancements in planetary floor grinders, chemicals and the latest resin diamond technologies, we are now able to produce spectacularly beautiful surface finishes with wearing properties unlike any other product.

When installed, treated and maintained correctly, HiPERFLOOR™ produces a floor exceptionally resistant to:

- Wear
- Tyre marking
- Water, Industrial Chemicals, Oils, Food stains, Greases, Hydraulic fluids, Fuels, Fatty materials.
- Dusting
- Abrasion and heat

What makes HiPERFLOOR™ floor special?

Because of the way it is ground (Diamonds and Machinery) and chemically treated (Densifier / Hardener) the abrasion resistance (resistance to scratching and fines being removed) of the concrete surface (top 2-4mm) is significantly increased. With HiPERFLOOR™ or mechanically polished concrete, we are taking one of the hardest materials known to man (concrete) and making this the wearing surface instead of a film coating / sealer. The result – a concrete surface unmatched in performance when referring to wearing properties.

The Process

The pores / capillaries in the concrete are opened up using metal bond diamonds (may or may not involve aggregate exposure). A silicate (HiPERHARD™) is applied to the concrete surface to react with the Calcium Hydroxide (also known as free lime) that is formed during the production of concrete (when the cement reacts with water). The product formed during this reaction is Calcium Silicate – a crystalline / glassy structure. It forms in the pores of the concrete near the surface and is the main contributor for increasing the surface hardness. The combination of calcium silicate forming in the concrete along with polishing of the concrete (“closing-up” the surface) has the following added benefits:

- A non-dusting surface is produced.
- A surface significantly resistant to tyre marking is produced.
- The surface tension of the concrete is increased, therefore making the surface less prone to absorption (via capillary action).
- The aesthetic properties of the surface are significantly improved.

A penetrating sealer (HiPERGUARD™) can be applied to the surface at the end of the process to make the concrete significantly more resistant to fats, oils, water and acids. HiPERGUARD™ lines the surfaces of the capillaries in the concrete creating significantly more surface tension preventing absorption into the concrete. HiPERGUARD™ provides the following benefits:

It is not a surface / topical sealer and therefore cannot blister, wear off or discolour.

Enables the concrete to breathe.

Can enrich the colour of the concrete.

HiPERFLOOR™ benefits include:

- Incredibly strong and hard - withstanding even the toughest traffic.
- Incomparable advantages in abrasion resistance and non marking properties, withstanding even the hardest traffic such as forklift tyres.
- Exceptionally resistant to wear, dusting and heat.
- Eliminates the need for epoxy or thin film coatings.
- Options for a high gloss, mid gloss or matt finish.
- VOC free, cleanable with water, providing an environmentally friendly alternative with minimal lifetime cost.
- Easy Maintenance.
- Clean and hygienic surface.
- Long lasting.