



Established in 1976, Pan Mixers South Africa (PMSA) is a leading manufacturer of a wide range of concrete block, brick and paving machinery, turbine and counter-current pan mixers and batching plants for the concrete, refractory and ceramic industries.

## Bring out the strength and the *beauty* of concrete floors



**A**lways striving to be in touch with, and in many cases succeeding in being ahead of, the latest technological advances, PMSA has been highly successful in introducing to South Africa the Swedish-based HTC Superfloor method for grinding and polishing of concrete floors.

HTC Superfloor is a complete concept for polishing concrete. The polishing method mechanically refines the concrete surface by removing the top cement paste and exposing the underlying, stronger concrete. The existing concrete is then ground and polished according to a dependable and thoroughly tested method with HTC's effective concrete polishing equipment and diamond tools.

The result is a floor with a completely even polished surface of high quality, both functionally and aesthetically. For a surface to have all the technical benefits of an HTC Superfloor the grinding and polishing sequence must be performed according to the prescribed method.

Several factors will affect the final appearance: The stone quality

and colour (in Sweden the ballast material consists mainly of granite in different fractional sizes); the colour of the cement (the cement can be pigmented); the concrete quality; and the grinding depth.

With regard to the last-mentioned, by using different grit sizes and bonding matrix in the diamond segments the depth of the grind into the concrete surface can be controlled. The grinding depth will affect how much of the stones are exposed and the aesthetic appearance of the polished surface.

An HTC Superfloor really makes one appreciate the advantages of having concrete as an exposed floor surface. Dirty, grey concrete floors are transformed into brilliant, easy-to-clean, environment-friendly and durable polished concrete floors.

Floors are an important part of everyday life in both industrial areas and private residences but, as well as looking good, a floor also needs to be functional, which is why HTC Superfloor is becoming so popular. The glossy concrete surface is not just aesthetically pleasing – it brings a host of other benefits too.

HTC Superfloor is an extremely economical option for all types of business activities. Compared with traditional methods for concrete floors or epoxy, for example, it offers unbeatable durability.

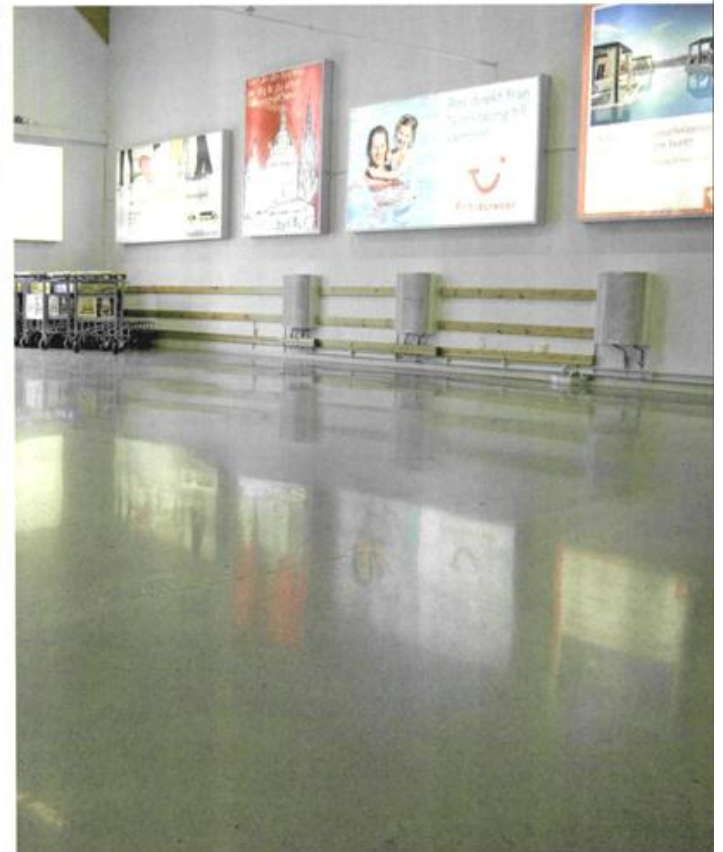
The processed construction concrete has an unlimited lifespan, that is – the same as the lifespan of the building. The initial investment is the same, or lower, than for traditional flooring solutions, but the low maintenance cost and the longer life make HTC Superfloor the most lucrative investment option for an industrial floor, and one in most other environments. The lifecycle cost is about 60% less than for traditional flooring solutions.

Some strong benefits of HTC Superfloor as an industrial floor compared with epoxy include: virtually no impact on global warming; no acidification or eutrophication.

It also provides better friction on wet surfaces than does epoxy, with no difference on dry surfaces. It needs low-energy consumption for new installations, and in use it is virtually vibration-free for trucks. The HTC Superfloor also complies with the standards for industrial flooring in the electronics industry.

In addition to industrial flooring, HTC Superfloor is well suited for many other environments such as supermarkets, stores, schools, hospitals, libraries, offices, garages and even in home environments, and can





provide a floor to suit all tastes.

HTC Superfloor is available as four different concepts – Platinum, Gold, Silver and Bronze, which means a floor can be selected with a matt surface finish or a high-gloss finish. What all four of the HTC Superfloor concepts have in common is that they are functional, economical, eco-friendly, aesthetically appealing and perfect as industrial flooring.

It also provides an outstanding floor for the electronics industry. The resistance tests conducted, both on floor joists and on concrete slabs on the ground, show that HTC Superfloor complies with the SS-EN 61340-5-1 standard for industrial floors in the electronics industry.

Measured values fall within the range for the international IEC standard and the American ANSI/ESD standard. Walk-around tests with ESD shoes generally produce low or no static, and in no cases have the limits stipulated in the standard for the handling of electronics been exceeded by HTC Superfloor.

#### Just add water

Another innovation from HTC that has been added to the PMSA sales programme with success is the Twister method of cleaning these floors. By using this method, floors become cost-effective to maintain in a simple, environment-friendly way.

The HTC Twister range of floor pads, manufactured in Sweden, offer a green alternative to toxic chemical detergents when maintaining floor surfaces, by making use of grinding discs coated with microscopic diamonds.

The pads, which come in sizes ranging from 100 mm – 700 mm, can be fitted to any mechanical floor cleaner and used on a wide range of flooring – the highest profile to date in South Africa being the world-

class Moses Mabhida Stadium in Durban.

Concrete is composed of pure natural materials. The coatings that are often applied to concrete have an adverse effect on the environment, but the Twister uses as much as 30 times less energy than traditional flooring solutions. The Twister floor maintenance system is also claimed to be the only completely eco-friendly cleaning method, using nothing except ordinary water.

The HTC Twister cleaning method is suitable for all types of floors (including industrial floors) enabling them to be kept clean with the minimum of effort. All that is required is water – no chemicals or polishing agents, which makes it gentler on floors and produces brilliant results.

The Twister range offers an environment-friendly alternative to floor cleaning – by making use of grinding discs coated with microscopic diamonds, as opposed to using toxic chemical detergents, and the diamond pads used fit most of the scrubbing machines on the market. ■

For more information visit [www.panmixers.co.za](http://www.panmixers.co.za).

*\*HTC Superfloor is a registered trademark*