



THE PROFESSIONAL CHOICE

**GREENSTONE MALL  
FOOD COURT**  
EDENVALE



THE SCIENCE  
BEHIND  
BEAUTIFUL SPACES





Address: Modderfontein Rd, Greenstone Hill, Edenvale  
 Scope: Refurbishment and installation of bespoke flooring system  
 Size: 160m<sup>2</sup>

CHALLENGES FACED



The challenges of a bespoke terrazzo-look installation are two-fold. One is that this type of floor will usually takes 28 days to cure before grinding and polishing can begin, however the Mall was still trading, so a fast-track solution was required. Secondly, level variations between the receiving substrate and the surrounding tile installation required a multi-level approach to install the one-of-a-kind floor.

SOLUTION

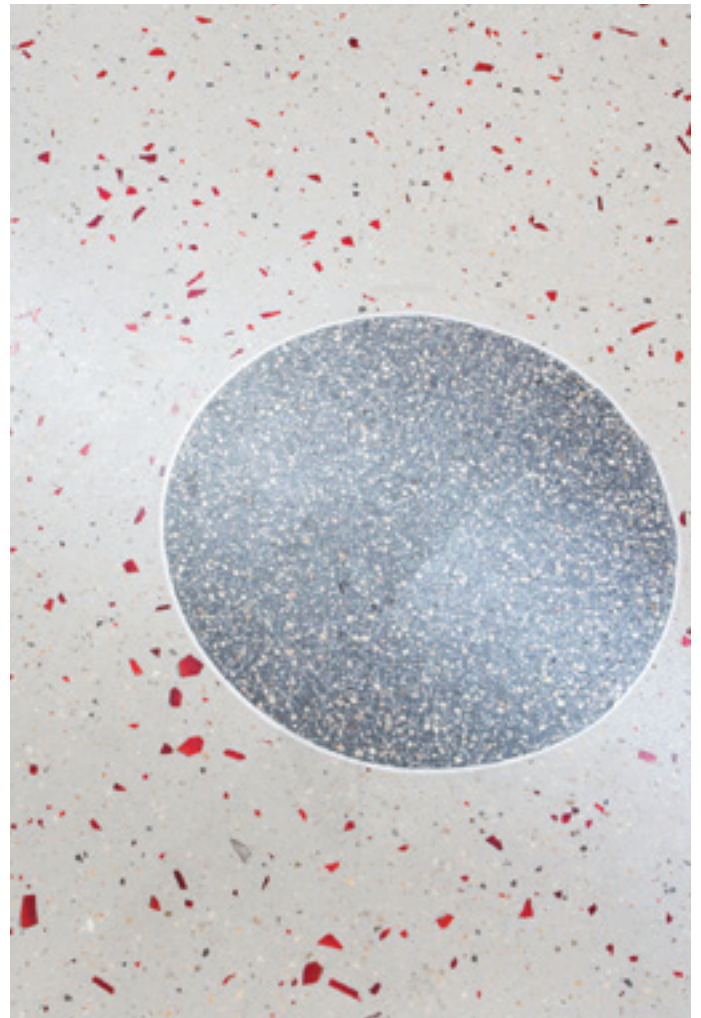
A multi-level system for a bespoke fast track terrazzo-look flooring system which is durable to accommodate the anticipated high volume of foot traffic associated with a shopping centre.

**Level 1 Levelling system** – After removal of the original floor covering, there were level variations between the receiving substrate and the surrounding sectional tile installation. TAL Superscreed was used to achieve the desired levels prior to placing of the final floor covering. This product is a high strength, rapid-setting, shrinkage-compensated cementitious underlayment compound formulated for rectifying and smoothing imperfections in floor surfaces prior to installing further coverings.

**Level 2 Priming system** – TAL SF Primer was applied to ensure an optimum bond between the substrate and TAL StoneFlow. This system is a high penetration, solvent-free primer which is applied, then fully blinded off with TAL Primer Aggregate, a carefully graded silica aggregate. Once cured, any loose aggregate was removed prior to installation of the TAL StoneFlow system.







**Level 3 Bespoke flooring system** – TAL StoneFlow, a cement-based self-smoothing decorative industrial screed was used to produce a hardwearing terrazzo-look floor. The system includes TAL StoneFlow Aggregate of marble and granite chips, in red and/or green added to the TAL StoneFlow mix to create the intricate floor pattern. Using aluminium frames to delineate the patterns, light-coloured insect shapes were fashioned from the brightly coloured glass chips and set in a darker-coloured outer field with 3.2 mm white aggregate. TAL StoneFlow was manufactured to the specified RAL colours for this project. Once installed, the TAL StoneFlow layer was then ground and polished to expose the coloured aggregate and achieve the desired look.

**Level 4 Sealing system** – Once the grinding and polishing was completed, the floor was sealed using TAL PUD Sealer Clear Gloss, a two component, high performance, water-dispersed, polyurethane sealer and anti-scratch coat. This ensures the longevity of the flooring installation for the anticipated high traffic volumes in the food court.

#### INTERESTING FACTS

Originally opened in 2007, Greenstone Shopping Centre is considered one of the largest malls in South Africa with over 150 stores covering 85 000 m<sup>2</sup> of retail space. The highly-detailed food court floor, designed by architects Bentel Associates International, entailed the transformation of the existing tiled floor into an eye-catching design of large butterflies, ladybirds and dragonflies. This was designed to be in line with the Greenstone Shopping Centre's 'green' theme, and with the food court's stunning 'bug' floor highlighting this 'look with a feel of nature'.

TAL is a division of Norcros SA and has been a trusted manufacturer and supplier of the highest quality materials to the construction industry for almost 50 years. Our products are designed for the harsh South African climate and to be fully compatible with each other. The TAL laboratory is the first in Africa to gain ISO 17025 accreditation for 1348:2007 testing (tensile strength of cementitious tile adhesives). We supply free technical Methods and Materials Specifications for projects, and when correctly followed, projects are awarded the TAL 10-year guarantee. When you consider these facts in combination with our commitment to exceptional customer service, technical advice and on-site support, it is clear that TAL is there for you at every level, to help make your project a success – from design to completion.

**TAL TECHNICAL ADVICE CENTRE: 0860 000 TAL (825) or [taltech@tal.co.za](mailto:taltech@tal.co.za) • [www.tal.co.za](http://www.tal.co.za)**

**Johannesburg 011 206 9700 | Cape Town 021 386 1810 | Durban 031 579 2263**

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