SURFACE JOINTLESS FLOORING SYSTEM

SPECIALISED ENGINEERED SOLUTIONS FOR STRUCTURES

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SURFACE is a concrete flooring system which is tailored specifically to meet the requirements of clients. Whatever the application, CCL can provide the optimal solution to suit your exact specification.

SURFACE

SURFACE is the ultimate flooring solution for a wide variety of applications. This jointless, ultra-flat concrete flooring system is designed to resist cracks and provide a tough, durable surface. A wide range of colours and finishes is available to suit clients' specific needs and tastes.

SURFACE is the ultimate low-maintenance flooring solution which offers long-term savings and creates maximum visual impact.

The system is ideal for:

- areas subject to high loads
- warehouses using industrial shelving where an ultra-flat surface is essential
- floors which experience a steady circulation of vehicles
- environments requiring a waterproof surface
- single concrete slab on ground applications
- clients requiring low ongoing maintenance costs
- clients demanding a high-quality finish

Perfect for use in a wide variety of environments including industrial, retail, manufacturing, leisure and healthcare, to name but a few. **SURFACE** is suitable for any situation which requires tough, flat, crack-free flooring with a high quality finish.

SURFACE can also be used for remedial applications on existing floors.

The quality of **SURFACE** is assured by careful attention to detail in every aspect of design and implementation. This includes initial geotechnical engineering and the appropriate preparation of the substrate using laser-controlled levelling devices to provide the optimum base for the precisely designed post-tensioned slab. The use of a laser screed in the slab construction provides accurate distribution of the concrete and an ultra-flat surface to allow the creation of a high quality finish.

To ensure complete client satisfaction CCL undertakes all aspects of the project including evaluation, design, supply and installation. Post-construction assistance and advice is available if required.

SURFACE

A JOINTLESS FLOORING SYSTEM

In most forms of concrete flooring, the major weakness in the slab is the joints. The more joints in a floor, the greater the initial construction and the ongoing maintenance costs. **SURFACE** is designed to create a jointless flooring system which requires minimal maintenance throughout its service life.

SURFACE is installed as a single, monolithic slab, making it truly joint free. The result is a flooring system which is not only durable, requiring little maintenance, but which also provides greater comfort for users and is aesthetically pleasing.

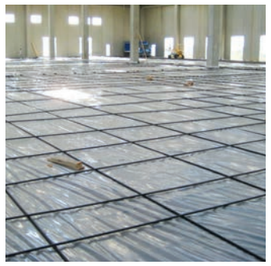
CRACK FREE

Unlike many traditional concrete flooring systems **SURFACE** is specifically designed to be crack free. This is achieved by the appropriate preparation of the subgrade; the post-tensioning of the slab using specific tendons, making it inherently resistant to cracks, and the high quality surface finish. All of these measures are precisely determined by taking into account the client's individual specifications.

As a result, maintenance costs over the life of the floor are dramatically reduced. This makes the jointless, crack-free flooring system perfect for applications subject to sustained traffic or heavy loading conditions.

ULTRA-FLAT SURFACE

The installation of **SURFACE** as a monolithic slab creates a joint-free, ultra-flat floor. This is an important consideration in many applications including extensive warehousing units where the use of sophisticated stacking equipment demands the flattest of surfaces. Using a high specification laser screed machine which can cover 2500m^2 of floor per day, **SURFACE** can create a supremely flat finish.



SURFACE

SUPER-TOUGH SURFACE

If your requirement is for a super-tough finish **SURFACE** can be specifically engineered to carry heavy loads thanks to a design that takes into consideration the interaction between the subgrade and the concrete flooring system.

SURFACE incorporates a superior finish which produces a permanently bright, sealed floor that is long lasting and does not deteriorate over time.

ENHANCED DURABILITY

SURFACE'S concrete base is designed to withstand severe stresses and varying subgrade conditions. The combination of this strength and the absence of joints creates a durable system which requires minimum maintenance thereby reducing ongoing costs.

CHOICE OF FINISHES

A wide range of finishes is available to suit each application, from warehouses to shopping malls, airports, hospitals and industrial environments. These can be designed to meet the specific needs of clients' applications, protecting against stains, dust, oil, chemical and atmospheric agents, as the situation demands. A densifier containing sodium silicate which reacts with the concrete can be incorporated into the slab to create a surface which has a permanently bright appearance and which provides a long-lasting sealed finish, resistant to dust and cracking.

CHOICE OF COLOURS

SURFACE is available in a wide choice of designs and colours, from the vibrant or contemporary, to the more traditional, to cater for clients' specific tastes and provide a superior aesthetic finish. This range of polished colours can transform an ordinary concrete floor into an impressive surface to create maximum visual effect.

Whatever your application, CCL offers a flooring solution to create the right impression now and long into the future.

10-YEAR GUARANTEE

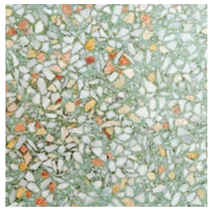
Offering a durable maintenance-free alternative, **SURFACE** reduces ongoing maintenance costs and is covered by a 10-year guarantee.

ANTI-SLIP

SURFACE is designed to provide an anti-slip flooring system for additional safety.

DUST-RESISTANT

A high-quality finish creates a sealed surface which is resistant to dust.



UNDERFLOOR HEATING

Underfloor heating can be incorporated into **SURFACE** to provide additional warmth and comfort. Unlike other concrete flooring systems, **SURFACE** slabs are specially designed to counteract the occurrence of cracks which can otherwise result from the heating and cooling cycles of underfloor heating.

CCL SERVICE

CCL has a worldwide reputation for its innovative use of technology, engineering and construction expertise. All are perfectly combined in the **SURFACE** jointless flooring system. By optimising the quality of subgrade, structure and finish, CCL is able to provide a **SURFACE** which is tailored precisely to meet your individual requirements and deliver an end product of the highest quality.

For total peace of mind **SURFACE** is offered as a complete package. **SURFACE** is the first Integrated Package Service for slab on ground. From foundations to completed floor, CCL will handle the value engineering, full design, construction, inspection and guarantee of performance.

SUBGRADE

A geotechnical engineering study is undertaken to evaluate the existing site conditions in order to determine appropriate remedial solutions, if needed: soil replacement or improvement, or use of deep foundations.

STRUCTURE

CCL will provide the structural engineering, necessary materials and key construction elements including concrete, reinforcement, formwork and post-tensioning.

FINISH

CCL will design and deliver **SURFACE** to meet the agreed finish requirements: jointless to minimal joints, toughness, flatness, resistance to dust, resistance to slippage and choice of colour.

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CCL.01/2016

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