

Project Spotlight



EuroCaps
Tredegar

Twintec ULTIMATE® Ground Bearing Floor Slab

EuroCaps are a world class Softgel Capsule Contract Manufacturer. Founded in 1994, they supply the nutritional supplement and over-the-counter markets across Europe and worldwide. They offer a range of services from product concept and design to consumer-packed finished goods. From their factory in Tredegar, South Wales, they operate a GMP facility and, due to the success of their business, they needed to expand their production facility.

Twintec were appointed by the end user directly to design and build their new 3,200m² extension. EuroCaps selected the Twintec ULTIMATE® floor slab which would achieve their requirement of a totally seamless floor without any opening joints across the whole floor slab area.

The Twintec ULTIMATE® floor slab design combines high performance steel fibres with steel fabric and a tried and tested concrete mix design that controls the concrete to deliver a seamless finish. The use of top mesh within the slab offers significantly improved

crack control allowing a maximum crack opening within the floor slab to be guaranteed.

Because the manufacturing process of EuroCaps required a “Clean Room” construction, the whole slab surface was to be coated with an epoxy resin finish. Traditional concrete slabs would include multiple formed and sawn-induced joints in the surface of the concrete, all of which would require treatment by the resin installer to ‘lock’ the resin down at these locations. Opting for the Twintec ULTIMATE® floor slab enabled

Project Data

End User:	EuroCaps Ltd
Client:	EuroCaps Ltd
Consultant:	Glanville
M ² :	3,200m ²
Pour Days:	3 days
Slab Depth:	160mm
Completion Date:	December 2019

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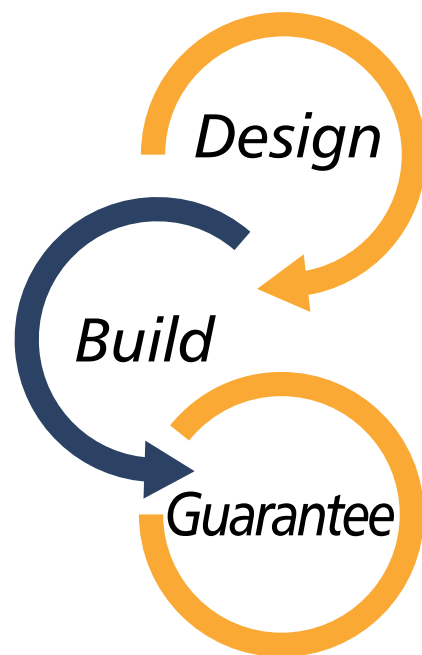


EuroCaps to benefit from no opening joints and therefore greatly simplified the resin floor installation giving a totally seamless finish.

The original slab design was for a 250mm thick reinforced slab. Using our design expertise we were able to reduce this to 160mm. Under normal design conditions Twintec would have allowed for a maximum 0.3mm crack width however, in this case, the client wanted to reduce this even further to achieve Liquid Tight construction. Twintec were able to adjust the reinforcement quantities to reduce the design crack width to 0.15mm thus improving the self-healing capacity of the floor slab to achieve the Liquid Tight requirement.

"I wanted to take the opportunity to convey my sincere thanks for the work and efforts put in by the Twintec support and installation team. I was personally on site for the majority of the installation and was extremely impressed by the very professional planning and execution of this part of the project. Should the need arise in the future, I would have no hesitation engaging with Twintec again and would be more than happy to recommend you to others."

Tony Farrup, Head of Engineering, EuroCaps Ltd



Delivered through a total offer concept:

DESIGN • BUILD • GUARANTEE

DESIGN

Value engineered design solutions adapted to each users specific needs.

BUILD

Site co-ordination, supply of materials, fast track construction and superior finishing worldwide.

GUARANTEE

The Twintec assurance guarantee.

Contact the Twintec business team for further information:

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