

Project:

LIDL UK Distribution Centre

Location:

Euro Central Business Park –
Central Scotland

Owner/s:

Lidl UK

Main Contractor:

Winvic Construction

Applicator:

Stanfords Industrial Flooring

Designer/Architect/Specifier:

Isherwood McCann Architects

Concrete Producer:

Tarmac

Market sector:

Ready Mixed Concrete

Products used and amounts:

MasterFinish SLB 101

LIDL UK Distribution Centre

New 624,000 sq. ft power float finish concrete floor



Our reference in Euro Central Business Park (Central Scotland): LIDL UK Distribution Centre

The background

Lidl is building a 624,000 sq. ft regional distribution centre at the Eurocentral logistics park located east of Glasgow in Scotland. The new facility will replace the retailer's current Livingston warehouse.

The facility will be designed to meet the demands of a BREEAM target of 'very good', which means it will have a high level of energy and water efficiency, and a lower impact on the environment. The development is subject to planning permission.

The challenge

Sourcing a local concrete producer that could meet the criteria for the concrete specified – maximum water/cement ratios and maximum air contents, all while maintaining consistency in workability throughout several sequential large pours. Expecting to be using in excess of 300m³ per day, over a period of 3 months. The criticality of continuous mix consistency using all the same raw materials was key. This project, being the largest distribution centre constructed for Lidl in Scotland, it's important that the facility's concrete floor can withstand the intended traffic for years to come. The concrete, as previously mentioned, needed to be poured in approximately 300m³ sections daily and finished by power float.

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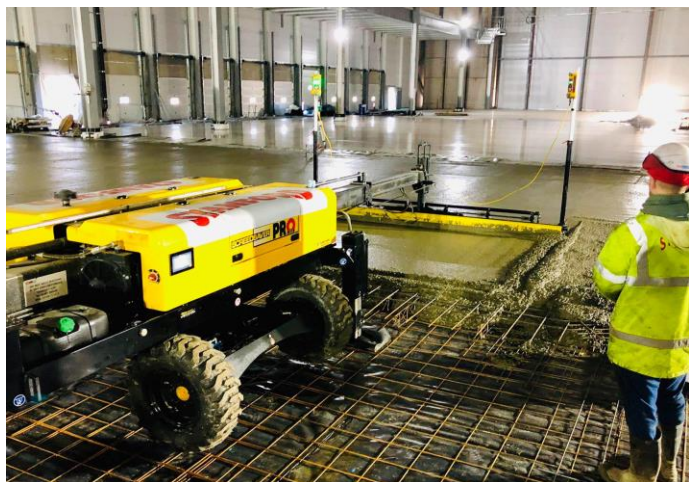
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Our solution

Tarmac being the locally preferred concrete supplier carefully analysed what raw material packages would provide the all-round best solution.

The best solution was a concrete mix combined with BASF's MasterFinish SLB 101, a water reducing admixture for the production of industrial floor slabs with power floated concrete finishes. This provided Stanford's with a quality ready-mixed concrete delivered from a local concrete plant, 5 miles from site.

MasterFinish SLB 101 provided a significant water reduction from the mix design, whilst still allowing the concrete to be very workable. Within MasterFinish SLB 101's chemical make-up there are particular compounds which ensure the concrete does not entrain to much air. This ensured that the concrete delivered to site was within the limits required to achieve the intended power float finish.

The customer's benefit

- Workable concrete in specification ideal for the task in hand
- Collaborate working between concrete producers Tarmac & admixture supplier BASF, in terms of requirement forecasting and limiting deliveries to restrict movements on a busy site
- Concrete mix delivered with specification – maximum water/cement ratios and maximum air contents, all whilst maintaining consistency in workability throughout several sequential large pours.
- Delivered from a local concrete plant, 5 miles.
- Excellent customer support

Projects facts at a glance

- Approx. 15,000m³ worth of concrete incorporating MasterFinish SLB 101
- Over 50 concrete pours to achieve completion of the centers power floated floor
- Over 300m³ per day over a period of 3 months
- The facility will be designed to meet the demands of a BREEAM target of 'very good'
- MasterFinish SLB 101 - water reducing admixture for the production of industrial floor slabs with power floated concrete finishes

Master Builders Solutions from BASF

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The know-how and experience of a global community of BASF construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction.

The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair & protection solutions, performance grouts, performance flooring solutions.

Further information is available at:
www.master-builders-solutions.basf.co.uk