

LIDL Distribution Centre

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



Our reference in North Lanarkshire (United Kingdom): LIDL Distribution Centre

The background

Lidl wanted to build 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 was 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.

Project:

LIDL Distribution Centre

Location:

Euro Central Business Park
North Lanarkshire

Main contractor:

Winvic Construction

Concrete producer:

Tarmac

Applicator:

Stanfords Industrial Flooring

Market sector:

Ready-Mixed Concrete

Products used:

MasterFinish SLB 101

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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 Master Builders Solutions 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 customers benefit

- Workable concrete in specification ideal for the task in hand
- Collaborate working between concrete producers Tarmac & and admixture supplier Master Builders Solutions, 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.

Project 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

