



Sika at Work

Project Participants

Main Contractor: Winvic/ABS Brymar

Distribution Centre

**SIKA DELIVERS COMPLETE FLOORING SYSTEM
AT GLOBAL RETAILER'S DISTRIBUTION CENTRE**

Further Information

Sika Construction has a comprehensive range of flooring systems to meet the requirements of virtually any structure and application. These solutions are backed up by a highly experienced technical team, who offer expert specification advice and support.

For Project specific technical advice is available please contact our technical department on 0800 1123863 or alternatively email: technical@uk.sika.com



Sika Limited, Head Office, Welwyn Garden City, Hertfordshire, AL7 1BQ
Tel 01707 394444, Fax 01707 329129, www.sika.co.uk



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Distribution Centre

SIKA DELIVERS COMPLETE FLOORING SYSTEM AT GLOBAL RETAILER'S DISTRIBUTION CENTRE

A new distribution centre covering 1,000,000 square feet, equivalent to 14 football pitches, has been built in Scotland for one of the world's largest online retailers. With the floors to be subjected to footfall and forklift movements 24 hours a day, a proven and hard wearing flooring system was required. Offering market leading durability, the Sikafloor-2 SynTop from Sika fitted the bill perfectly.

Main contractor Winvic was appointed to deliver the new-build single storey warehouse during a 42 week construction programme. To complete the comprehensive 80,000m² flooring application, the company turned to specialists in the design and construction of industrial floors, ABS Brymar. For the hard-wearing and attractive flooring system the durability and performance of the Sikafloor-2 SynTop system from global building product manufacturer, Sika, proved ideal.

Sikafloor-2 SynTop is a one part, pre-blended, coloured synthetic dry shake hardener for concrete comprising of cement, hard aggregates, compatible admixtures and pigment. It provides a hard wearing, non-metallic dry shake topping for monolithic floors.

When sprinkled and trowelled into fresh wet concrete floors, it forms a durable and smooth surface – ideal for warehouses, distribution

centres, factories, manufacturing plants and aircraft hangars, as well as many more commercial and industrial facilities of all sizes. The system, applied in its natural concrete grey, is available in various other colours to provide a more decorative finish as required.

Due to the nature of the company's business, the warehouse floor would be subjected to aggressive actions from trucks and constant foot traffic. To ensure durability and long term performance, the application was completed to meet Class AR1 Very high abrasion resistance as stipulated in BS 8024-6 – the British Standard for resin flooring.

Sika utilised its expertise and high levels of skill to achieve FM2 special flatness tolerance, perfect for providing a safe working area in warehouses of this kind with high racking, free movement areas and transfer areas.

The floor, which featured steel fibre reinforcement, was laid in bays, measuring up to 40 mtrs x 40 mtrs, delivering fewer joints for a lower maintenance surface and improved long term performance.

In addition to the internal floor finish, a Sika concrete admixture was also chosen, incorporated into the concrete mixes for the external and internal floor slabs – both subject to high traffic loads. SikaPlast

15RM, a liquid admixture that is used as a mid-range water reducer and plasticiser, was added to the mix to increase the workability of the concrete whilst at the same time increasing durability and strength. It proved to be a cost efficient solution and meets the requirements of BS EN934-2 HRWRA/Superplasticiser.

To complete the application, ABS Brymar applied the Sikafloor Proseal one-coat concrete curing membrane. A clear acrylic resin polymer solution, Sikafloor ProSeal impregnates the concrete surface in a single application to cure, harden and seal freshly-applied or hardened concrete. Fully cured within 24 hours at 20°C, it minimises downtime and ensures the floor is fully trafficable within days.

Now complete and fully functional, the distribution centre was officially opened in November 2011 – in time for the busy Christmas trading period. Thanks to the proven performance of the Sikafloor-2 SynTop system and SikaPlast 15RM, the floors will be prepared to withstand busy warehouse activity for years to come.

For further information on Sika's range of products, visit www.sikaconstruction.co.uk or for general enquiries call on 0800 1123863.

