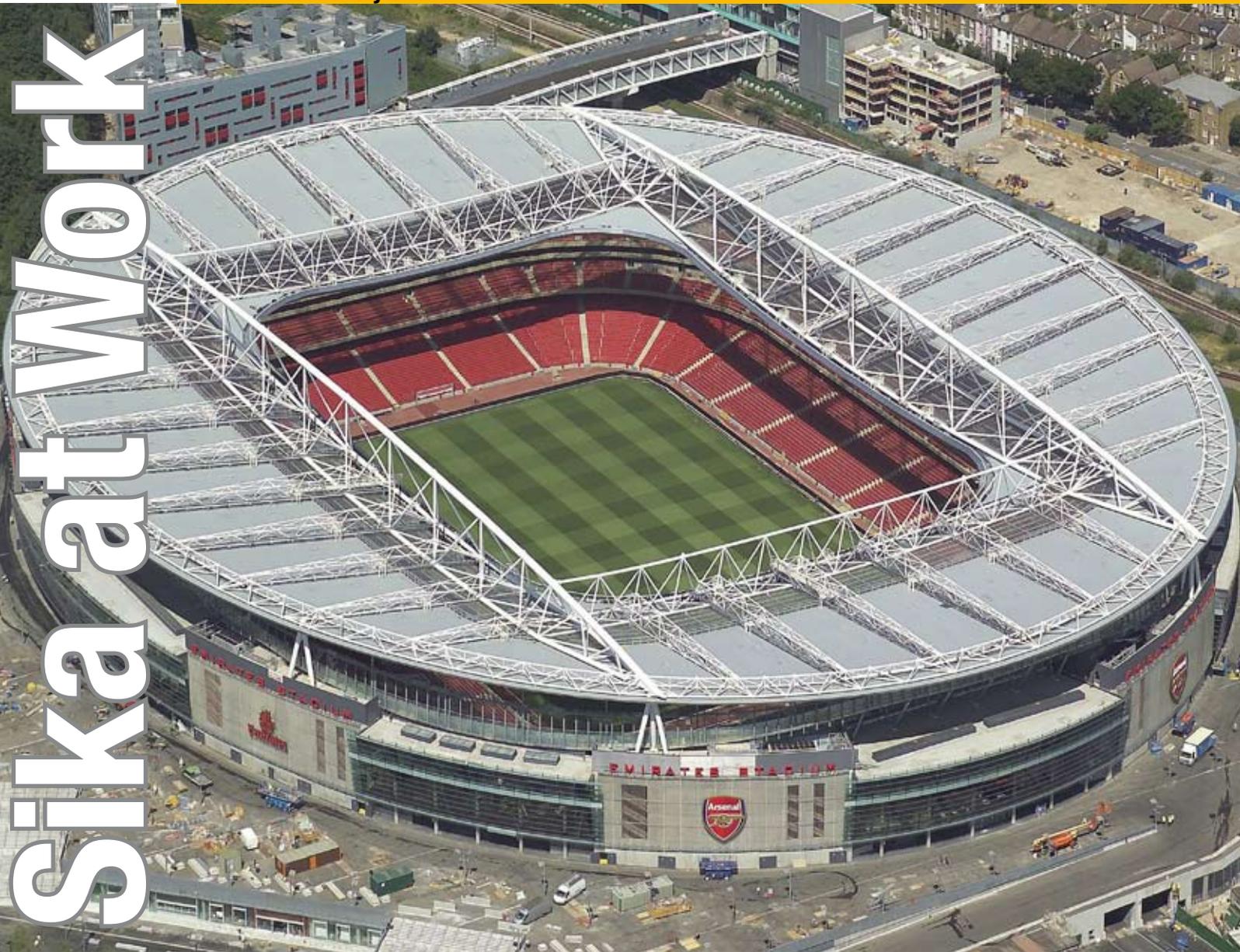


Sika at Work



Emirates Stadium, London, England

The Home of Arsenal Football Club

Flooring: **Sikafloor**[®]

Roofing: **Sarnafil**[®]



Innovation & Consistency | since 1910

Emirates Stadium, London, England – The Home of Arsenal



Project Description

Emirates Stadium opened in July 2006 with a seating capacity of more than 60,000 and is the fifth largest stadium in the UK. It is a £400m multi-purpose stadium and conference centre that is the home of Arsenal Football Club, also known as 'The Gunners' in the English Premier League.

The project was built in just over 3 years and completed on budget and opened on time; it was recognised as an example of excellence in construction by winning many awards. These included the prestigious Building Magazine's 'Project of the Year 2007' and main contractor Sir Robert McAlpine was named 'Main Contractor of the Year' at the same ceremony.

nal Football Club



Project Requirements

The spectacular four tier structure reaches 41 metres from the pitch to the top of the roof and in total, 27,000m² of roof waterproofing membrane was required. The architects specified a special light reflective, very light grey colour of RAL 7040 for all of the exposed roofing components, they also demanded long term similar project references, plus full CAD and on site manufacturer support. This was due to the exceptional level of detailing needed on the complex steel framework and that the membrane had to be installed during a very tight window in the project schedule.

Hard wearing, durable floor finishes were required throughout the project, particularly in the stadium entry areas, concourses and toilet facilities, where adequate slip resistance for public safety in both dry and wet conditions were also required.

The extensive kitchens and catering areas also required heavy duty hygienic flooring that was approved for use in food preparation areas, slip resistant yet easily cleaned and resistant to impact and hot/cold spillages.

An additional requirement arose due to very high rain occurring after some of the major concrete floors were poured, which damaged the surfaces meaning that they needed to be suitably repaired and levelled prior to the floor finishes being applied.

The Sika Solutions

Sika **Sarnafil® S327** PVC based, single ply membrane was selected for the roof waterproofing; by using the **Sarnafast®** system of mechanical fastening, through to the substructure, the installation was easily completed within the tight programme. This was also made easier by use of the **Sarnamatic® 661** automatic seam welding equipment, which ensures fast and very consistent, secure seam welding.

The damaged concrete floor surfaces were easily repaired and made good using **Sikafloor® Level-25** pumpable cement based screed.

In the entry areas, concourses and toilet facilities the durable, slip-resistant floor finish was provided by the **Sikafloor® 261** epoxy resin based system.

The additional hygiene and performance requirements for the kitchen and catering areas was met by using **Sikafloor® 20 Purcem**, a water dispersed PU / cement combination screed – as also used extensively for these reasons throughout the food industry.



Project Participants

Project: Emirates Stadium, London UK
 Client: Arsenal Football Club
 Lead Architect: HUK Sports
 Main Contractor: Sir Robert Mc Alpine
 Type of Contractor: Design and Build
 Roofing Contractor: Prater Ltd
 Flooring Contractor: Phoenix Industrial Flooring

Other Sika Solutions for Stadiums

Basement waterproofing with **Sikaplan**[®], waterbars, injection materials
 Concrete production with **Sika**[®] **ViscoCrete**[®], **Sikament**[®],
Sikaplast[®], retarder
 Joint sealing with **Sikaflex**[®] and **Sikasil**[®]
 Concrete protection and repair with **Sika**[®] **MonoTop** and
Sikagard[®]
 Corrosion and fire protection with **SikaCor**[®], **Sika**[®] **Permacor**[®],
Sika[®] **Unitherm**[®]

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