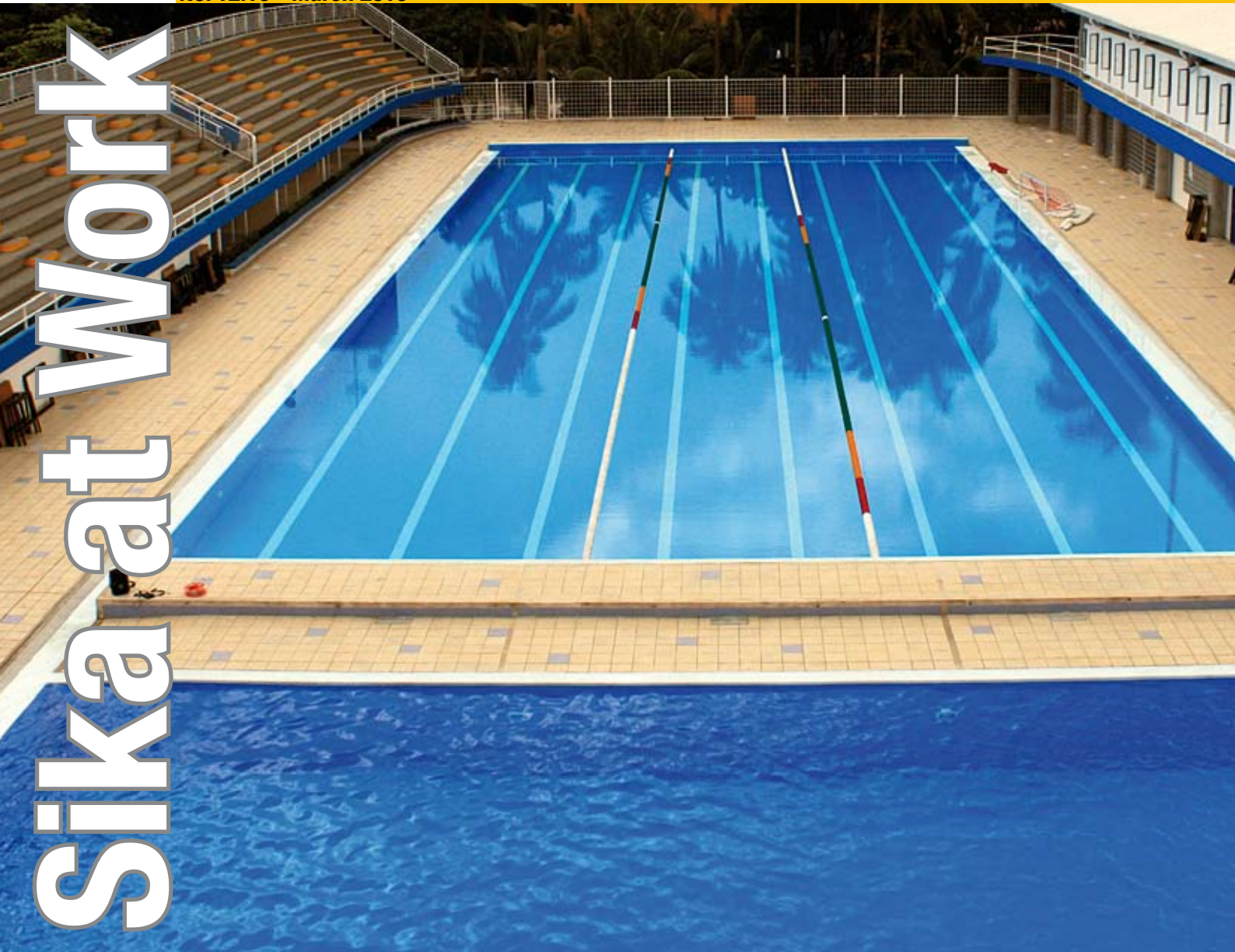


Sika at work



Refurbishment of Swimming Facilities City of Cali, Colombia

Waterproofing and Refurbishment of Olympic Swimming Pools

Waterproofing: **Sikaplan**[®]

Flooring: **Sikafloor**[®]

Roofing: **Sikaplan**[®]





In November 2008, the Colombia National Games were to be held in and around the City of Cali.

Several of the sports facilities needed repair and refurbishment before the games could go ahead, including the Alberto Galindo and the Pan-American Hernando Botero O'Byrne Swimming Centres, both of which had originally been built between 1950 and 1960.

A concrete surface area of approximately 14 500m² in total was designated for refurbishment by localized repair, overall re-waterproofing and decorative protection.

Project Requirements

Both facilities were showing typical signs of deterioration from wear and tear for their age, therefore they both needed extensive refurbishment prior to the Games.

The waterproofing work should also involve concrete repairs to parts of the structure and the application of protective finishes to improve functionality, durability and appearance.

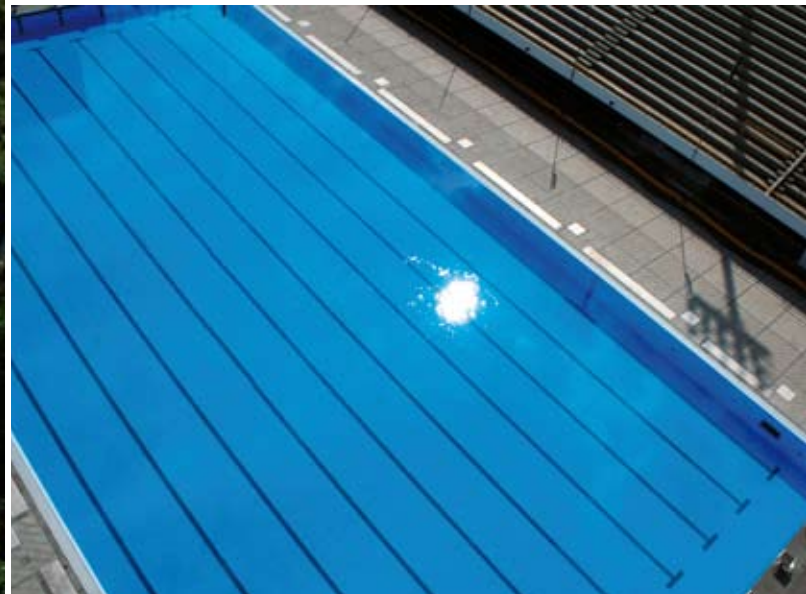
Sika Solutions

The project engineers decided to waterproof and improve the appearance of the pools by relining each of them with **Sikaplan® -15 PR PVC** membrane as it had the following advantages:

- Guaranteed waterproofing performance
- Good visual appearance
- Rapid installation
- A cost effective and an economic solution

The roof and terrace area needed to be refurbished as well.





Refurbishment Process

A total of five pools were renovated, two Olympic-sized swimming pools, two diving pools and one warm-up pool. The process involved removal of the previous waterproofing and finishing materials which were debonded and cracked in most areas. This was replaced with a **Sika®-1** waterproof render, and the **Sikaplan® -15 PR** mid blue PVC sheet waterproofing membrane was installed on the surface. Light blue **Sikaplan®** Anti-Slip PVC membrane was then laid around the edges of the pools. In total an area of 5000 m² of these special Sika swimming pool membranes was installed.

In the wet areas around the pools at the Alberto Galindo Centre an additional 2500 m² of **Sikaplan®-8 R** waterproofing membrane was installed and overlaid with tiles. Additionally **Sikaplan®-12 G CO** single-ply roofing membrane was used to waterproof an exposed roof area of 350 m².

The spectator viewing terraces were sealed and waterproofed with **Sikafloor®-400N** Elastic liquid applied membrane in a grey colour, which also provided a medium duty wearing surface for the pedestrian traffic, on an area of 4500 m² for the horizontal treads and **SikaColor® C** acrylic coating in a concrete grey was applied for decorative protection on the vertical risers, an area totalling 2300 m².





Sika Products

Sika®-1	300kg
Sikaplan® 15 PR	5000m ²
Sikaplan® Anti-slip	170m ²
Sikaplan® 8 R	2500m ²
Sikaplan® 12 G CO	350m ²
Sikafloor®-400N Elastic	4500m ²
SikaColor® C	2300m ²

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