



Waterproofing

Al Raha Beach Project

Nearly 800 000 m² of waterproofing membranes laid in Abu Dhabi!

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Siplast has just delivered its products for the third stage in the ambitious Al Raha Beach project starting barely three years ago. Located along the coast, Al Raha Beach is a fast growing urban development, designed to welcome mainly residents from abroad. Although the worldwide crisis has profoundly braked the work on the site, three hubs have already emerged from the ground or are about to emerge.



Al Bandar

Abu Dhabi is one of the United Arab Emirates along the Persian Gulf. Having undergone a less remarkable growth than its neighbour Dubaï, it has however pursued a similar policy of diversification of its income sources – initially coming from oil and gas – by concentrating particularly on the development of business and tourist activities.

The Al Raha Beach project fits this dynamic well. Its ambition has been to compete with Dubaï by proposing a vast coastal city, luxurious and equipped with all the infrastructures, expected by a customer base which would be western or American in particular, including transportation, sports, education, health services and, above all, businesses, hotels and restaurants. The initial plan is expected to lead Al Raha Beach toward a total ground surface of six million square meters, extending 11 km (about 7 miles) along the coast, to take in as many as 120 000 inhabitants.

Ideally located on the motorway leading to Dubaï – 10 minutes from the airport and 20 minutes from Abu Dhabi City -, Al Raha Beach is being built (and will be built) in eleven phases. The first three phases have already been delivered with Siplast waterproofing products, making it one of the most important undertakings in the industry.



Al Bandar

Al Bandar

Initiated in 2007 with Al Bandar – a luxurious neighbourhood of Al Raha Beach, very maritime since it is surrounded by a marina -, the construction has required very sturdy products to ensure perfect waterproofing and tanking in order to protect the built structures from very high humidity. So 60 000 m² of Teranap were laid. One year later, reaching level 0, the project also called for very high quality products, products which correspond perfectly with Teranap, for waterproofing the several types of flat roofs and terraces, the most attractive part of the decks, those that are accessible to pedestrians and suitable for gardens.

The waterproofing was laid using a two-layer system, having the same first coat (Paradiene SVV) plus a second appropriate layer (Paradiene SR4 for the pedestrian accessible decks, along with Graviflex with anti-root action for the deck-gardens). Thanks to its product range, Siplast has been able to provide materials made of a single SBS bitumen so as to ensure perfect compatibility and continuity for all the connections among waterproofed surfaces.



Al Zeina

When it came time to waterproof the summits of the buildings, it was the same Paradiene SVV + Paradiene SR4 complex that was applied.

Al Zeina

Located at the east end of Al Raha Beach and described as the "garden neighbourhood", Al Zeina has been the second phase of the project. Individual homes, town houses and apartments, immersed in the greenery, compose Al Zeina, always making sure that parking facilities are hidden underground. To do this, once again, from 2008 to 2009, Siplast delivered 150 000 m² of Teranap 431 TP and 60 000 m² of Parafor to seal the foundations of the buildings.

Al Muneera



Al Zeina

Continuing its progress, the project has reached a third phase with Al Muneera. There again, the luxurious buildings, with restaurants, boutiques and gardens close by, right along the sea, required effective, reliable and long lasting protection. The two-layer complex, Paradiene SVV + Graviflex, was installed to waterproof under the greenery. As to the decks suitable for pedestrian traffic and the roof decks, this time they are protected by Esha products, part of Icopal Group. Eshaflex products are SBS bitumen modified membranes reinforced with high strength polyester.

Working together and for the long term



Al Muneera

All during the project, on the waterproofing side, Siplast has worked in close partnership with AMC Protection, the most important organisation in the field in the United Arab Emirates, bringing together not only installation teams but also working far upstream of the projects, with its own integrated engineering firm, and accompanying its customers during the implementation work. For tens of years now, Siplast and AMC Protection have been working together, from the preliminary study and design work of the project, one and the other contribute engineering skills to the final customer. This regularity, but also the technological quality of the products delivered and the competent project follow-up until the laying of the membranes, have made it possible to successfully complete these first three phases. All are waiting for the crisis to fade away and for Al Raha Beach, the oasis of the 21st century, to be finalised.



Al Muneera

Project identity information

Contracting authority: Aldar Laing O'Rouke JV

Main contractor: Pell Frischmann

Waterproofing contractor: AMC Protection

Works dates: 2007-2010

Products utilised:

• Al Bandar	
Teranap 431 TP	55 080 m ²
Parafor M3S	11 760 m ²
Paradiene SVV	36 000 m ²
Paradiene SR4	24 000 m ²
Graviflex	7 968 m ²
Adealu	2 500 m ²
• Al Zeina	
Teranap 431 TP	150 600 m ²
Parafor M3S	39 360 m ²
Parafor M4S	15 985 m ²
Adeprimaire	150 bidons
Asfix	19 725 kg
• Al Muneera	
Paradiene SVV	102 160 m ²
Paradiene SR4	24 000 m ²
Graviflex	102 160 m ²
Eshaflex 180	96 000 m ²
Eshaflex 250	96 000 m ²

