

*Barcelona. Spain's New Aquarium:  
Europe's Largest and Most  
Important on Topic of Mediterranean  
Fauna and Flora*



It is also the most significant private facility for applied research and science in Mediterranean marine biology. Altogether, 4000 species from the Mediterranean and the tropics share a three-storey aquarium system.

Designed by architects Esteban & Roberto Terradas, the aquarium is one of the largest works in post Olympic Barcelona. The project was built on a trapezoidal property of 6,300 m<sup>2</sup> area in Barcelona's "Centre de Mar." It is part of the waterfront reclamation for leisure space and represents one of Spain's most prominent recreational projects.

#### **Oceanarium at the Centre**

An immense sea water tank measuring 40 meters in diameter and 5 meters in height, the oceanarium forms the centre. Its dimensions allow keeping large species and give the viewer a sensational

underwater experience by means of transparent tunnels.

#### **1.3 Million Visitors Annually**

The aquarium complex accommodates various marine biology areas that are presented in 21 separate tanks. Sharks, the most conspicuous species, peacefully share the oceanarium with others.

A large exhibition space and a 200-seat auditorium for seminars are additionally integrated into the aquarium system, which hosts 1.3 million visitors annually.

#### **Vandex Waterproofing for 21 Sea Water Tanks**

Serving as man-made living space for animals and plants, the sea water tanks in reinforced concrete construction must meet stringent requirements in terms of biological compatibility, operating safety and durability.

For waterproofing and protection of the internal surfaces of all



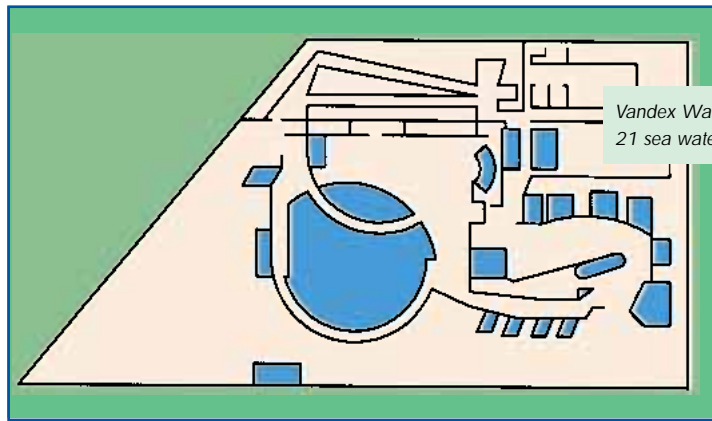
reinforced concrete tanks, as well as for the foundation slab and elevator pits structures, the design team's choice was VANDEX SUPER cementitious waterproofing slurry.

A total of 5,000 m<sup>2</sup> of reinforced concrete surfaces of the above systems and structural segments was coated with VANDEX SUPER. The dosage was 1.2 kg/m<sup>2</sup> on horizontal surfaces, 1.5 kg/m<sup>2</sup> on walls.

**Builder:** La Sociedad Mundo Submarino, S.A.  
**Architects:** Esteban & Roberto Terradas Muntanola, Barcelona **General contractor:** U.T.E. Entrecanales y Cubiertas **Vandex applicator:** Francisco Betrián Travería, Barcelona



# VANDEX WATER-PROOFING FOR EUROPE'S LARGEST AQUARIUM



Vandex Waterproofing for 21 sea water tanks.



4000 species from the Mediterranean live in 21 sea water tanks in the Barcelona aquarium.

Picture left: Underwater trail in the oceanarium.

