

# Waterproofing Systems and Technical Solutions



## Manila Building

Manila is a private building located in the waterfront of Gandia beach, Valencia. The project consisted in the structural reinforcement of the highly degraded concrete structure. The piers and the waffle slab of the parking area presents a high degree of deterioration with high problems of structural stability.

Concrete carbonation and chlorides attack was the principal cause of the structure degradation.

The main damage detected was the steel corrosion and lose of concrete sections. The structural steel bars present a high corrosion index, with a very important lost of section.

The state of the structure, require to make an immediate reinforcement intervention.

The first action was to clean up and remove all of deteriorated reinforced concrete section in piers and waffle slab using sand blasting machine. Once prepared the support, the solution adopted by the designer was to provide new structural steel bars. LANKO 760 was used as protection primer of reinforcement steel. The section of concrete damaged was recovered using the structural repair mortar, LANKO 731; R4 classified by EN 1504-3. As a preventive action against the corrosion progress, LANKO 761 was applied in all of the parking structure.

### > LOCATION

Gandia – Valencia – Spain

### > CUSTOMER

Private owner Edificio Manila

### > MARKET SEGMENT

Concrete Repair

### > SUBSEGMENT FUNCTION

Repair mortar

### > YEAR

2014

### APPLIED PRODUCTS



- LANKO 731 REP ESTRUCTURA SR
- LANKO 760 PASIV
- 761 LANKOSTEEL

### TECHNICAL DETAILS

- Volume : 87 tons of LANKO 731 REP

BRAND

# LANKO

**PAREX**  
Building expertise, together