



Waterproofing Systems and Technical Solutions



Mercabarna Slaughterhouse

Mercabarna, located in Barcelona, is a food city that operates 24 hours a day with the aim of guaranteeing the supply of fresh food to the public.

The project consisted in the structural reinforcement of a highly degraded waffle slab. The concrete structure of the slaughterhouse, presents a high degree of deterioration mainly due to a chemical attack. On the one hand, chemicals, high water pressure used in the cleanup and the high temperatures of the environment; on the other hand the location of the structure very close to the waterfront, exposed to a high concentrations of chlorides.

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.

Once prepared the support, the solution adopted by the designer was to provide new structural steel bars (\varnothing 16 - 20 mm). LANKO 760 was used as protection primer of reinforcement steel. The section of concrete lost was recovered using the structural repair mortar, LANKO 731; R4 classified by EN 1504-3. After formwork the two sides of the concrete rib, the technical mortar LANKO 731 was applied using a special spraying machine.

APPLIED PRODUCTS



- LANKO 731 REP ESTRUCTURA SR
- LANKO 760 PASIV

TECHNICAL DETAILS

- Volume : 30 tons of LANKO 731 REP

> LOCATION

Barcelona – Spain

> CUSTOMER

Mercabarna

> MARKET SEGMENT

Concrete Repair

> SUBSEGMENT FUNCTION

Repair mortar

> YEAR

2015

BRAND

LANKO

PAREX
Building expertise, together