

THE CENTRAL AMOREBIETA

ACTIVITY:

Protection and rehabilitation of concrete structures and pavements.

LOCATION:

Combined cycle power plant of Bizkaia Energía – Amorebieta –Spain.

FINALIZATION: October 2012

CONTEXT:

Holding tanks, metallic elements and deteriorated concrete of industrial flooring, with leaks and cracks and detachments or losses section.

DESCRIPTION:

Reparation and protection of concrete ponds, holding tanks, metallic elements and industrial flooring.

Process:

1º. Evaluation and counseling.

Prior review of the facilities and damaged structures.

Detailed study of the specific requirements of each zone or surface to repair and protect:

- Resistance to chemicals
- Resistance against erosion,
- Resistance against corrosion
- Resistance to impact.
- Resistance to heavy traffic, ...



2º. Surfaces preparation:

Thorough cleaning of contaminants / residues and removal of old and badly adhered coatings.

Cleaning with mechanical and manual means and use of chemicals, abrasives and pressurized water, depending on areas and characteristics of dirt or coating to remove.



3º. Rehabilitation and reparation of surfaces.

Repair leaks, cracks, section loss and deteriorated structures by: resin injection and fluid mortar for concrete surfaces and recomposition of metallic elements with ceramic-metal systems.



4º. Implantation of advanced coatings of long duration.

Protection of the various surfaces repaired with the advanced coating systems. See below pictures of rehabilitated and protected areas: concrete ponds, holding tanks, metallic elements and industrial flooring.

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