OUR PROJECTS

Concrete Waterproofing by Crystallization
Xypex products for the waterproofing, protection and repair of concrete have been used on a wide range of above and below grade projects around the world. But, as strong as concrete is for endless applications, its flaw is that over time, through the tiniest pathways within its structure, concrete permits the passage of water and other potentially damaging liquids. Water can become concrete’s staunchest enemy, permitting the ingress of water and aggressive chemicals. This can result in the rusting of reinforcing steel and the deterioration of the structure. Xypex Crystalline Technology and the Xypex integrated product line have, for more than forty years, successfully challenged the damaging action of water.

THE CRYSTALLINE DIFFERENCE IN EVERY PROJECT

Xypex forms a non-soluble crystalline structure within the pores and capillaries of concrete to prevent the penetration of water from any direction, even under extreme hydrostatic pressure.

VERSATILE CONCRETE MIRRORS THE DIVERSE WORLD OF CONSTRUCTION

Versatile concrete mirrors the diverse world of construction, and for years the waterproofing attributes of Xypex products have been integral to a wide variety of high profile projects.

When Xypex first introduced its unique crystalline concrete waterproofing technology more than forty years ago, the company knew its potential. This was technology for a wide array of project types – basements, bridges, locks and dams, water treatment plants, power plants and, in general, the infrastructure of cities. It was a product system for climates hot, cold, wet and dry. And it fit with construction practices around the world.

Xypex responded quickly to the interest that its new technology generated and established an extensive network of distributors and batch plants in more than seventy countries. I never cease to be amazed at just how many kinds of projects involve our initial Concentrate and the additional products that evolved in four decades of research and use.

In the accompanying pages we have shown a sampling of the kinds of projects where Xypex Crystalline Technology products provide the waterproofing and protection needed to maintain and restore the integrity of the concrete.

Les Faure
DIRECTOR OF ADVERTISING & PROMOTION

XYPLEX PROJECTS WORLDWIDE

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“I never cease to be amazed at just how many kinds of projects involve our...products...“
Around the world, Xypex has worked with engineers responsible for tackling the challenge of wastewater and environmental responsibility. Xypex products are well suited for use on concrete structures used for the collection, pumping and treatment of wastewater. Concrete pipe, lift stations and tanks must be protected from the water and aggressive chemicals common to sewage. The crystalline waterproofing technology of Xypex works from within the concrete to make it impermeable. Wastewater is thereby contained, and the neighboring environment and the structure itself is protected.

**Water Holding**
Water holding structures are about keeping water inside and Xypex Crystalline Technology, with its ability to resist extreme hydrostatic pressure, has been used extensively to waterproof and protect the concrete of a wide variety of water holding structures: reservoirs for potable water, filtration plants, swimming pools — including NASA’s Neutral Buoyancy Tank used for the training of astronauts, and an aquarium that encloses the world’s largest artificial ocean.

**Precast**
Using the Xypex Admix C-Series of products, precast manufacturers can add value to their products. Xypex Admix is blended into the concrete at the time of batching enabling companies manufacturing precast products such as manholes, box culverts, pipe, architectural panels and highway median barriers to waterproof and protect their products before they leave the plant.

**Below Grade Concrete**
More often than not, Xypex waterproofing takes place underground where concrete requires protection against any number of potentially invasive water forces. Below grade, the crystalline technology of Xypex products resists hydrostatic pressure and protects against reinforcing steel corrosion and sulfate attack.

On certain projects, Xypex coatings, dryshake and admix products can all be used to facilitate an accelerated production schedule and considerable savings of time and money — a true example of value engineering.

**Transportation**
Concrete durability is of fundamental importance in the building and maintenance of transportation structures such as bridges, tunnels, canals, and subway systems. Xypex products will waterproof and protect the concrete against freeze thaw, chloride attack and extreme hydrostatic pressure, even in the most severe environmental conditions.

**Power**
Ensuring the integrity of concrete structures is critical in the power industry. Xypex Crystalline Technology products have made an important contribution in the waterproofing of access tunnels, vaults and machine rooms in hydroelectric power dams and thermal power generating stations as well as cooling water channels in nuclear plants.
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The diversity of use of the Xypex family of products is significant. Around the world, it’s a long, exciting and constantly evolving list.