5.0

XYPEX PROJECTS

Project Overviews

PROJECT CATEGORIES

5.1 Water & Wastewater Treatment

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 within the concrete to make it impermeable and resistant to chemical attack. Wastewater is thereby contained, and the neighboring environment and the structure itself is protected.

South District Wastewater Treatment Plant

Miami Dade, Florida
USA

XYPEX products used

- Concentrate
- Modified

As Miami-Dade County's population continues to increase, using reclaimed water enables the MDWASD to provide a sustainable water resource for its environment and its future.

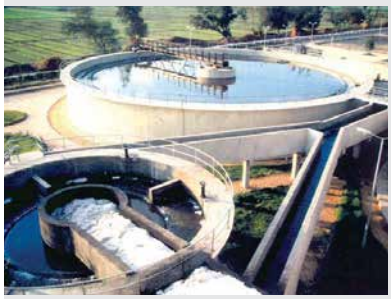
The population growth, construction boom and a shortage of water resources are the driving forces behind this big expansion project. The plan involves reclaiming tens of millions of gallons of wastewater and a treatment process that will allow the reuse of effluent at a rate of up to 112.5 million gallons per day, making it one of the largest plants in the U.S. In phase one, over 52,000 sq. ft. of surface area was treated with the Xypex two-coat system of Xypex Concentrate and Modified to specifically waterproof and protect the flocculation and filter tanks and flumes. Phase 2 will be of equal size and Xypex coatings are again specified, while the digesters, clarifiers and pump station will utilize the immediate waterproofing and protection benefits of Xypex Admix C-1000. An estimated 400,000 lbs. of Xypex will be used in total.

WATER & WASTEWATER TREATMENT

Pine Creek Wastewater Treatment Plant

Calgary, Alberta, Canada

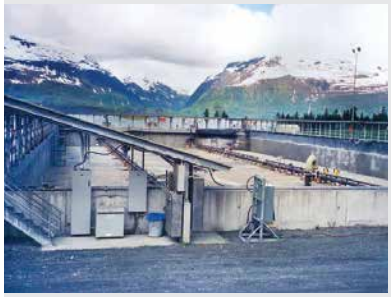
Xypex Concentrate and Modified (180,000 lbs.) were used to waterproof and provide chemical protection for the first phase of this major wastewater treatment facility (400,000 sq. ft.), while Xypex Admix C-500 was incorporated into the 75,000 sq. ft. slab.



Shebin El Koum Sewage Station

Cairo, Egypt

Over 35,000 m² of concrete at this large wastewater treatment plant in Cairo were waterproofed and protected with the Xypex crystalline waterproofing system (two coat application of Xypex Concentrate and Modified).



Alyeska Pipeline Water Treatment Facility

Valdez, Alaska, USA

The ballast water from the super-tankers that take on oil at Valdez is treated at this site. Xypex Concentrate was applied to the two final water-purifying tanks. After purification is complete, the water is pumped back into the ocean.

Cardedeu Water Purifying Plant

Cardedeu, Spain

This plant supplies Barcelona and other area towns with drinking water. The filter channels to this water purification facility were repaired and waterproofed with Xypex products.

Allegria Wastewater Treatment Plant

Rio de Janeiro, Brazil

Xypex Concentrate and Modified were spray-applied to all foundation walls and slabs of this wastewater treatment facility, the largest of seven plants that serve the city of Rio de Janeiro.

Bogota Wastewater Treatment Plant

Bogota, Colombia

This is the first of three Bogota wastewater treatment plants to be treated with Xypex products. More than 5,000 kg of Xypex products were used to waterproof the structure. Xypex Patch'n Plug was also used to repair defects and stop water leakage in the concrete before application of the coating system.

Winneba Waterworks

Accra, Ghana

All cracks in the filtration tanks of this plant were repaired using Xypex Patch'n Plug, followed by a two-coat application of Xypex Concentrate and Modified.

Seneca Wastewater Treatment Plant

Minnesota, USA

Xypex products were used to repair the extensive cracking (5,000 linear feet) in pipe galleries at the old section of this plant. Xypex crystalline waterproofing system was also used to coat the chlorine contact chambers and other structures in the new section of the plant.

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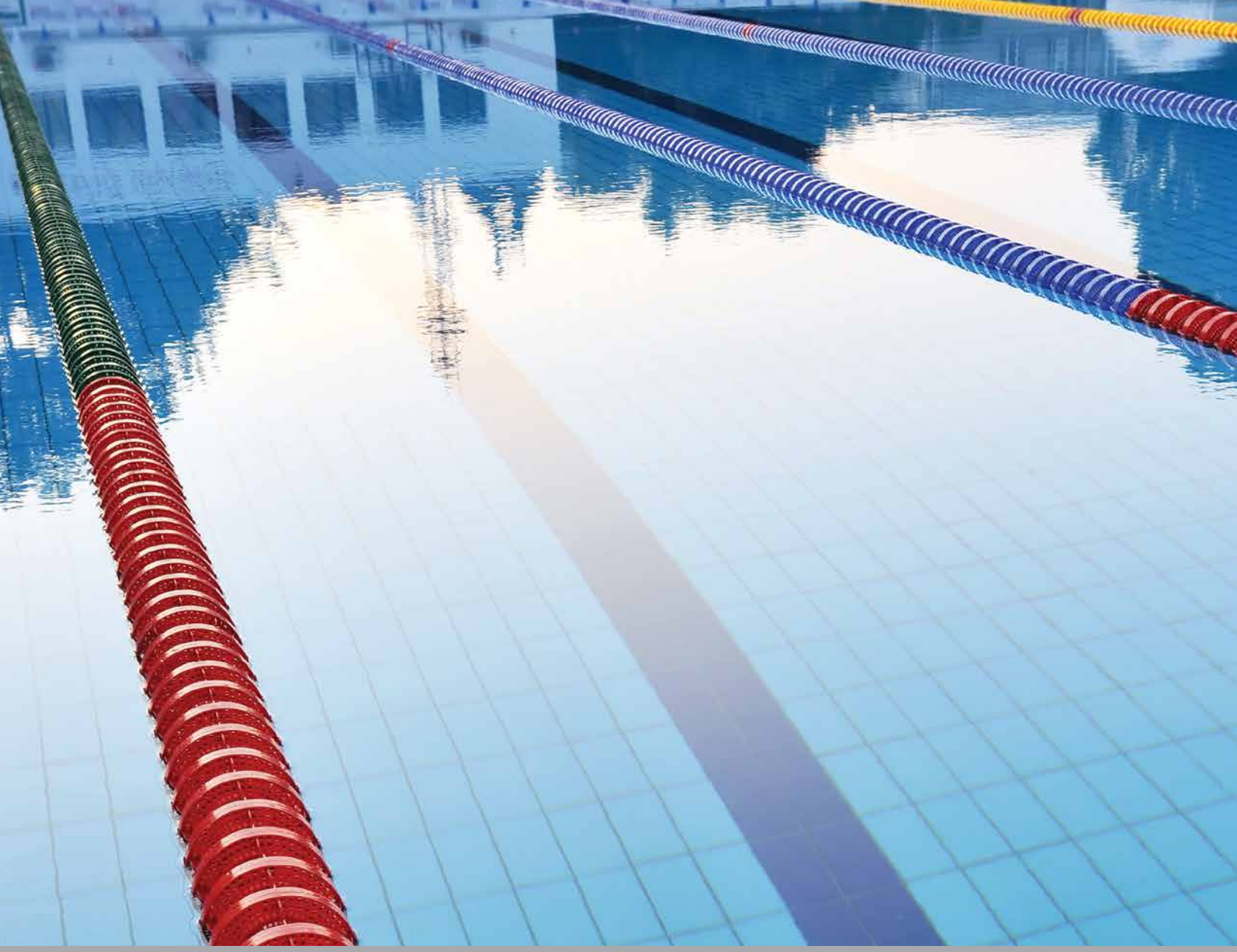
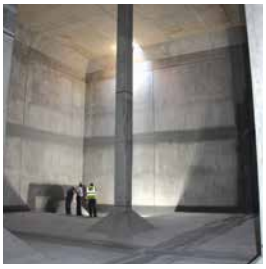


5.2 Water Holding

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 including reservoirs for potable water, filtration plants, swimming pools, and aquariums.

Ras Laffan Reservoir

QATAR



XYPEX products used

- Concentrate
- Modified

The Ras Laffan Reservoir, part of the highly prestigious Ras Laffan C project, will hold 63 million gallons and produce 275,000 m³ of potable water per day by 2011.

The Xypex two-coat system of Xypex Concentrate and Modified was used to waterproof and protect 37,999 m² of potable water tanks. The largest of these tanks will take 1½ years to fill. The benefits of Xypex Crystalline Technology – waterproofing, enhancing structural durability and the ability to resist aggressive chemicals – in this case, high salt content – made Xypex products the preferred choice for this project. Xypex products were also used on the cooling tower of 11,300 m² and the sewage treatment plant of 377 m².

Ras Laffan C is one of the most prestigious projects in the Middle East and, by 2011, will be the largest integrated water and power plant in the country, providing 30% of Qatar's electricity and 20% of its potable water. It will also help to provide electricity to other Gulf States through a regional grid.

San Diego Zoo

San Diego, California, USA

This polar bear tank was treated with both Xypex Concentrate and Modified at an application rate of 1.5 lbs. per sq. yd. The Xypex technology provided an effective, environmentally safe waterproofing system for the tank.

Gefion Fountain

Copenhagen, Denmark

After removal of the statue and four pool slabs, new slabs were cast with Xypex Admix blended into the concrete mix. The Xypex coating system (Concentrate and Modified) was then applied to the existing pool walls, while Xypex Concentrate and Patch'n Plug were applied to both the positive and negative sides of the reservoir under the pump house.

Melbourne Aquarium

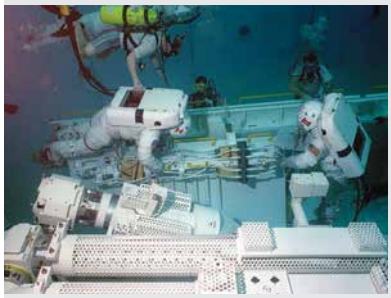
Melbourne, Australia

The below-ground aquarium tanks and viewing areas (adjacent to the Yarra River) exhibited leakage in various areas due to cracks and defective joints. All leakage was eliminated by using the Xypex concrete repair system (Xypex Concentrate and Patch'n Plug).

One & Only Resort Pool

Cape Town, South Africa

Xypex products were specified to waterproof and protect various areas of this One & Only Resort project, including two undersea tunnels, lift shafts, health spa pools, day water tank, penthouse swimming pool and the main one-million liter swimming pool (pictured here). Four Xypex products were used: Admix C-1000, Concentrate, Modified and Patch'n Plug.



NASA Neutral Buoyancy Pool

Houston, Texas, USA

Xypex Patch'n Plug (White) was utilized to seal all joints prior to applying Xypex Concentrate (White) to waterproof the entire interior surface of the pool (approx 50,000 sq. ft.). This watertight pool provides a weightless environment to test space lab components and train astronauts for life and work in space.

Comodor Rivadavia Aquaduct

Argentina

Xypex's unique crystalline technology was used to waterproof and protect tanks and pump stations of this 223 km aqueduct. Installation included repair of all defects, construction joints and tie holes with Xypex Patch'n Plug, followed by a two-coat application of Xypex Concentrate and Modified.

Portal Das Rosas Elevated Reservoir

Limeira, Brazil

All cracks and other water leakage points were treated from the external side of this elevated reservoir using Xypex Patch'n Plug and Xypex Concentrate. The application was performed without any stoppage to the general operation of the reservoir.

Pool & Spa House

Clarus, Bermuda

The Xypex crystalline waterproofing system was used throughout the swimming pool and spa areas of this exclusive Bermuda property. Application included use of Xypex Admix C-1000, Xypex Concentrate and Xypex Modified.

5.3 Below Grade

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.

Willis Building

London
United Kingdom

XYPEX products used

- Admix C-1000 NF
- Concentrate

Changing the London skyline, The Willis Building is the fourth tallest building in the city. Its progressive environmental strategy surpasses statutory carbon reduction targets and meets the highest standards for sustainability. Over 15,000 m³ of concrete was used in its construction.

This 28-storey skyscraper, opposite Lloyd's in the heart of London's financial district, is the new headquarters of the global insurance broker, Willis Group Holdings. Designed by world-renowned architects Foster + Partners, the building won the 2007 New City Architecture Award for its unique architectural form and contribution to the streetscape and skyscape of the City of London. The project is significant in both urban and environmental terms. Most of the material from demolition of the previous building was recycled and crushed for use in the 38-meter-deep foundations.

Xypex Admix C-1000 NF was used to waterproof and protect the below-grade slab and elevator pits. Xypex Concentrate Dry-Pac was then installed in all floor-wall joints followed by a slurry coat application of Xypex Concentrate.

Bank of Tanzania

Dar es Salaam, Tanzania

Two coats of Xypex Concentrate were applied to exterior of vault walls and to the floor slab. Before application of the second coat, cold joints around the perimeter of the slab were routed out, treated with a slurry coat of Xypex Concentrate and then filled with Xypex Patch'n Plug.

Bank of China

Beijing, China

A high water table required the specification and use of Xypex products to waterproof and protect the basements, cash vaults, service rooms and auditorium of this IM Pei-designed Bank of China headquarters. The Xypex system was also used on the raft foundation walls and slab.

The Esplanade Theatres on the Bay

Singapore

This project involved waterproofing the below-grade foundation that would be subjected to significant hydrostatic pressure and a harsh marine environment. The use of Xypex Admix accelerated the construction schedule and resulted in a time saving of more than two months: a real example of value engineering.

Ratusz Metro Station A-15

Warsaw, Poland

The Xypex crystalline system was used to waterproof and protect all concrete in the Ratusz Metro subway station, including floor slabs, foundation walls, non-structural walls and ceilings.

Cathedral of Christ the Savior

Moscow, Russia

Xypex coating system (Concentrate and Modified) was applied to plaza deck over chapel, parking structure and pump station. Xypex FCM repair system was used at the junction of plaza and brick walls. Cracks in the below grade pipe gallery were repaired using Xypex Patch'n Plug and FCM, and this was followed by a coat of Xypex Concentrate (White).

Dewan Perdana Feldar

Kuala Lumpur, Malaysia

Xypex Admix C-2000 NF was used in over 7,500 m³ of concrete, making up the one meter thick base slab and retaining walls of two underground car parks, to ensure water tightness. A total of 3,400 kg of Xypex Concentrate and Modified were also applied to other concrete structures at this landmark complex.

The Municipal House

Prague, Czech Republic

The Municipal House, constructed between 1905 and 1911, is one of Prague's cultural and architectural treasures. During its complete restoration in 1996, Xypex products were used to waterproof below-grade areas of the structure, including reservoirs and utility tunnels.

The Sands Casino

Macau

The foundation of this casino complex, designed by the Paul Steelman Design Group, would be subjected to high hydrostatic pressure. Xypex Admix was then specified and used to waterproof over 10,000 m³ of concrete foundation, while Xypex Patch'n Plug and Concentrate were used to repair cracks and joints.

National Bank of Ethiopia

Addis Ababa, Ethiopia

A two-coat system (Xypex Concentrate and Modified) was applied to interior of the basement area, underground vaults, and two-level parking structure. The roof slab of the above-ground parking structure was also treated with Xypex products.

Benziger Family Winery

Napa Valley, California, USA

Xypex Admix, with a colored pigment, was specified and used to stop water penetration into the underground areas and wine-storage caves at this well-known family winery in the Sonoma wine country. Xypex Patch'n Plug was also used to repair large cracks.

The Waterfront Centre

Vancouver, British Columbia, Canada

Ten thermal storage tanks, ten elevator pits and four sump pits were waterproofed with Xypex products at this hotel and office complex on Vancouver's harbour waterfront. The total area treated was approximately 7,450 m² (80,000 sq. ft.). In addition, Xypex Concentrate and Patch'n Plug were used to repair approximately 1,200 meters (4,000 lin. ft.) of construction joints.

Saifee Hospital

Mumbai, India

The Xypex crystalline waterproofing system was applied to the floors and retaining walls of the three-level basement at this major multi-specialty hospital overlooking the Arabian Sea. The Xypex coating application was performed on the negative side (against the water pressure).

5.4 Tunnels

Tunnels serve many purposes such as transporting people or goods, accessing minerals from deep in the earth, or providing conduits for electrical and telecommunications services. Proper waterproofing of tunnels is one of the most cost effective ways to enhance safety and function as well as increase the service life of these structures. Xypex Crystalline Technology, and its ability to resist extreme hydrostatic pressure, aggressive soils and traffic contaminants, is used the world-over to waterproof, protect and enhance the durability of tunnels.

Washington DC Metro System

Washington, D.C.
USA

XYPEX®
products used

- Concentrate
- Modified
- Patch'n Plug

Metrorail, commonly called Metro, is the second-busiest rapid transit system in the United States in number of passenger trips. Since opening in 1976, the Metro network has grown to include five lines, 86 stations, and 106.3 miles (171.1 km) of track.

Xypex products were specified by Bechtel Corp and the Washington Metropolitan Transit Authority for use at various locations of the metro area subway system, including sections in central Washington D.C., Bethesda (Maryland), Chevy Chase (Maryland) and Alexandria (Virginia). Areas of application included tunnel sections, large shotcrete vaults, passage-ways, mechanical rooms, equipment vaults, elevator shafts and various areas in metro stations.

The Xypex system was not only used to treat large surface areas but was also used extensively for the repair of severe leakage problems caused by concrete defects and exposure to strong hydrostatic pressures.

TUNNELS

Susten Pass Road Tunnel

Innertkirchen, Switzerland

The concrete of this 1949 tunnel deteriorated over time resulting in substantial water seepage through cracks and degraded areas. With freezing temperatures this created a traffic hazard. New concrete replaced the old, and the Xypex coating system (Concentrate and Modified) was used to waterproof and protect it.

Sao Paulo Metro System

Sao Paulo, Brazil

Two subway stations were treated with the Xypex Crystalline Technology to prevent water penetration. First, cracks were repaired using Xypex Concentrate Dry-Pac, followed by a two-coat application of Xypex Concentrate and Modified. An additional 38 stations in Sao Paulo are to be waterproofed and protected with Xypex products.

Vuoli Harbour Tunnel

Finland

Xypex Admix C-1000 NF was used to waterproof and protect the 50 mm thick shotcrete lining of this rail and two road tunnel located under the Helsinki harbor. The concrete mix design used 470 kg of Portland cement per cubic meter, and the Xypex Admix was dosed at 1.1% (5 kg) per m^3.

Ankara Subway

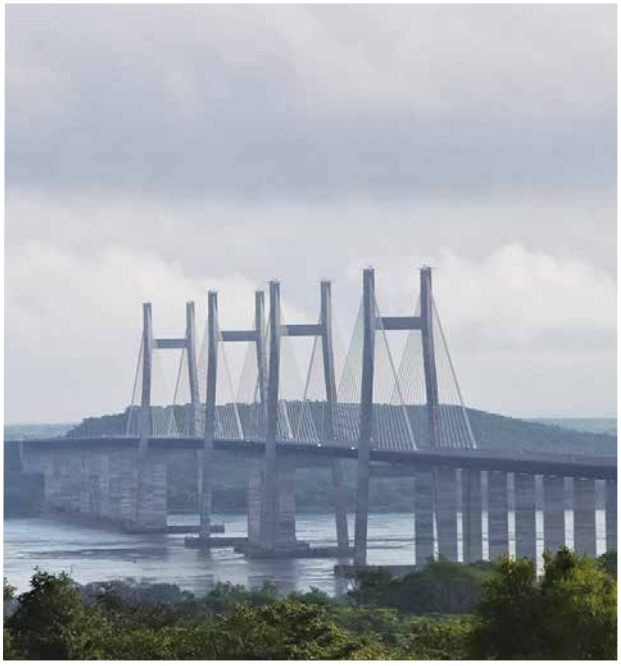
Turkey

Xypex Patch'n Plug was used to repair 11,000 meters of cracks and construction joints in this subway tunnel, stopping all water ingress. Xypex Concentrate and Modified were then applied to surface areas to waterproof and protect the concrete.

5.5 Bridges

Concrete durability is key in the building of bridges. Xypex's unique crystalline technology addresses the many problems that age and aggressive environmental conditions such as harsh weather and constant traffic impose on these concrete structures.

Second Orinoco River Bridge



Ciudad Guayana
VENEZUELA

XYPEX products used

- Concentrate

The Orinoco and its tributaries constitute the northernmost of South America's four major river systems. The bridge is a 3.2 km (2 miles) long road-rail crossing, carrying four lanes of highway traffic separated into two carriageways by a single railway track in the centre.

The general contractor, Constructora Norberto Odebrecht, S.A., concerned about water seepage and possible corrosion of the reinforcing steel in the concrete forming the base for the railway, used Xypex to waterproof and protect it. Odebrecht was confident in Xypex Crystalline Technology having used it successfully on the Metro project in Caracas. Prior to the Xypex application, there was already obvious leakage from the concrete.

This problem ceased after the application of over 63,000 lbs. of Xypex Concentrate to the concrete base and walls underlying the rail track.

BRIDGES

Aomori Bay Bridge

Aomori, Japan

The main beams of the precast girder box were exposed to salt corrosion damage from the ocean. Xypex Crystalline Technology, because of its resistance to effects of marine environments, was applied to the bottom plates including plates of the main girder, horizontal keyways, non-expansion vertical construction joints, exterior walls and top deck slab.

Kaunas Bridge

Kaunas, Lithuania

The support columns of the old bridge were treated with Xypex Concentrate. The Xypex coating system was also used on the entire undersides of the two new bridges.

Skala - Nemsova Motorway Bridge

Slovakia

This motorway concurrently forms a flood barrier to the Vah River. A two-coat application of Xypex Concentrate and Modified was used to waterproof the run-off channels and pits where highway water, carrying oils and chemicals are collected. The columns on several of the bridge sections were also treated with a two-coat Xypex application.

Bedaling Expressway Overpass

Beijing, China

The Bedaling Expressway, located outside of Beijing and leading to the Great Wall, includes 4 overpasses which were waterproofed using Xypex Concentrate and Xypex Patch'n Plug.

5.6 Marine Structures

Xypex Crystalline Technology protects concrete structures in marine environments – structures that are exposed to the damaging effects of seawater, chlorides and other aggressive elements. Preventing corrosion of reinforcing steel and resulting concrete degradation has made Xypex an important treatment for a variety of marine installations including wharfs, bridge pilings, locks, desalination conduits and seawalls.

Panama Canal

PANAMA

XYPEX products used

- Admix C-1000
- Admix C-2000

Since 1914, the Panama Canal has been a conduit of world importance, providing a link between two great oceans, a passageway annually for more than 14,000 vessels carrying more than 200 million tonnes of cargo.

Since 1995, Xypex products have been integral to an ongoing program of upkeep and refurbishment of the canal, the revitalization of concrete that has stood the grueling test of more than 80 years of continuous service.

Xypex Admix has been used to re-surface the 30-foot diameter culverts which pump water into and out of the locks. After prolonged use, the walls of the culvert became rough, with exposed aggregate causing turbulence and a slow fill and dump cycle. By smoothing out the surface of the concrete with an inch-thick Xypex shotcrete coating, which also reduced water loss, the locks can fill and empty seven minutes faster on each cycle. This permits the passage of more ship traffic through the canal system.

MARINE STRUCTURES

Sea Bus Docks

Vancouver, British Columbia, Canada

The post-tensioned steel reinforcing cables of two large floating concrete docks were placed too close to the bottom surface, and therefore were exposed to salt corrosion. The docks were removed from the water and Xypex Concentrate was applied to the undersides. Following curing, they were placed back into the water and have exhibited no further corrosion.

Sempra Energy Natural Gas Terminal

Ensenada, Mexico

More than 25,000 lbs. of Xypex Concentrate were used to protect the concrete from the harsh marine environment and the potential for deterioration due to chloride exposure. The breakwater is 1,300 meters long.

Singapore Marina Barrage

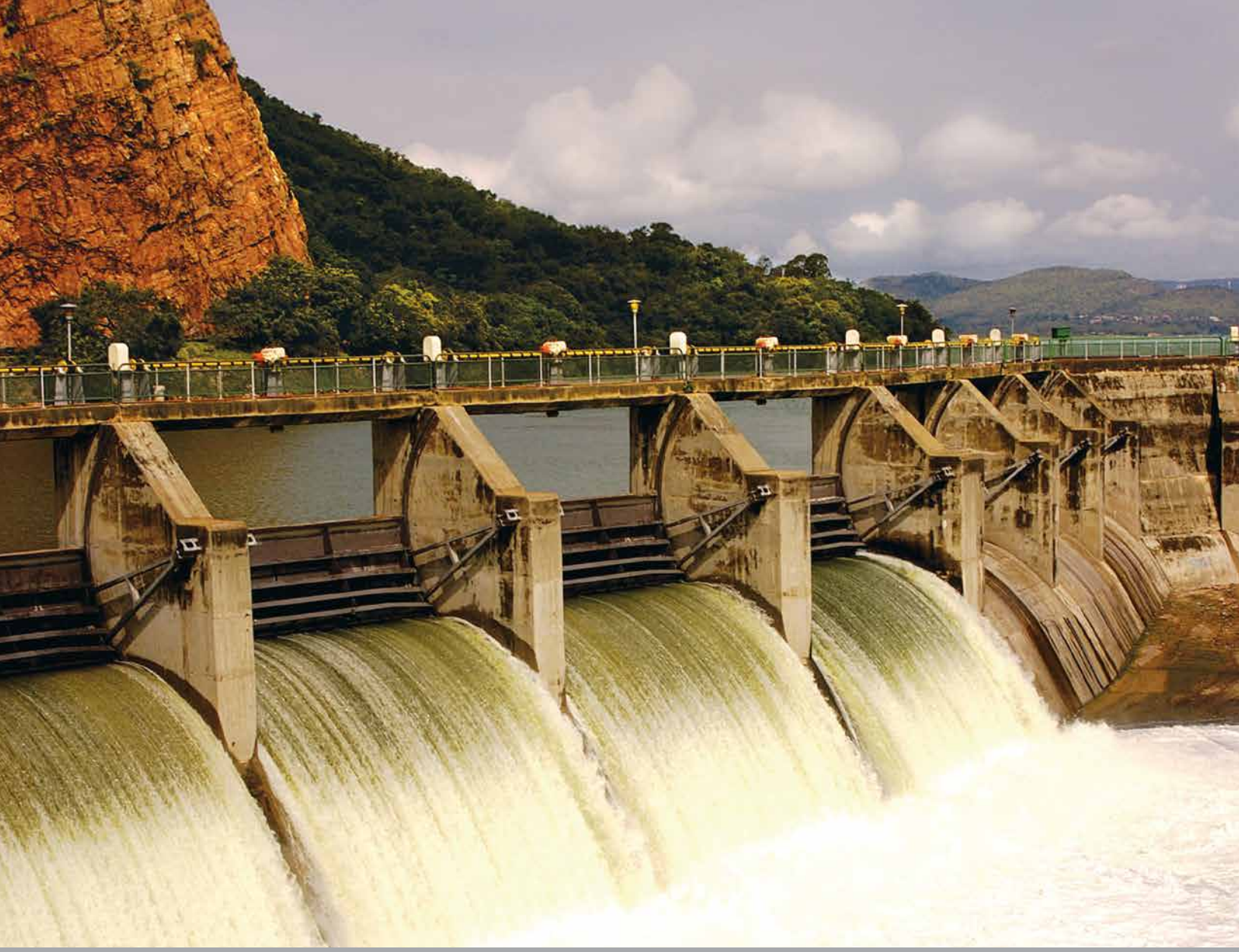
Singapore

The Barrage consists of nine steel crest gates and spans the 350 meters wide Marina Channel, separating seawater from freshwater and acting as a tidal barrier. More than 7,000 kg of Megamix II were used to shape and protect the Barrage gates. Megamix was selected to meet the fine (1 mm) tolerance specifications and its ability to withstand the harsh marine environment.

Cronulla Marina

Sydney, Australia

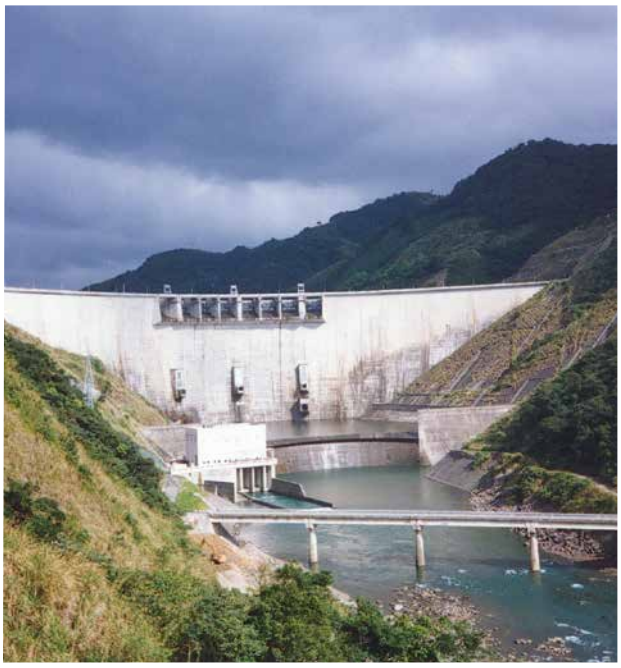
The concrete mix used at this marina included Xypex Admix C-2000 added at a dosage rate of 4 kg/m³, and was designed to achieve 32 MPa at 48 hours and 50 MPa in seven days. The two-tonne post-tensioned units of these floating concrete structures had to be lifted from their formwork 36 - 48 hours after casting.



5.7 Dams

Dams, whether for hydroelectric production or water management, are all about water – keeping it secure and protecting the unique components that are engineered into every dam structure. Xypex Crystalline Technology has been specified worldwide for the waterproofing and protection of dams, including upstream and downstream faces, pipe galleries, discharge chambers and spillways.

Fei Cuei Dam



Hsin Tien
TAIWAN

XYPEX products used

- Concentrate
- Modified

The Fei Cuei Dam, the largest concrete dam in Taiwan, is located 30 km south of Taipei City near the mouth of Beishi Creek. The Fei Cuei Reservoir provides the Taipei water supply region with a dependable source of water for domestic and industrial use. The dam and reservoir were put in use in January 1979.

The Fei Cuei Dam is a three-centered double curvature with variable thickness arch dam and includes eight crest spill-ways, three sluiceways and one tunnel spillway. The dam is 122.5 m high and was built with 700,000 m^3 of concrete. When water began seeping through the wall joints of the dam, The Water Conservation Bureau of Taiwan specified Xypex to solve the problem.

The Xypex two-coat application of Xypex Concentrate and Modified eliminated all seepage, waterproofed the structure, and thereby prevented oxidation of the reinforcing steel.

DAMS

Ogrezeni Dam Spillway

Bucharest, Romania

This dam structure is located on the Arges River, 25 km west of Bucharest. The reservoir was created to provide added security and quality to the water supply. Cracks and joints (275 meters) on the spillway surface were repaired using Xypex Patch'n Plug to prevent leakage into the service gallery. A coat of Xypex Concentrate was then applied over the repaired areas.

Huaylacancha Dam

Huancayo, Peru

Xypex Patch'n Plug was used to repair cold joints after the parge surface coat was removed from the upstream and downstream faces of this dam. Both Xypex Concentrate and Modified were then used to waterproof the upstream face, while a single coat of Xypex Concentrate was used on the downstream face.

Zawada Mill Dam

Zawada, Poland

Extreme hydrostatic pressure was causing leakage through the concrete in the pipe gallery. Xypex Concentrate was applied on all interior surfaces to prevent further water infiltration.

Dau Tieng Dam

Tay Ninh Province, Vietnam

After a successful trial application in 1997, Xypex products were specified and used to waterproof the upstream discharge chamber (400 m²) of this dam. A Xypex representative provided on-site technical support to ensure proper application.

5.8 Power Generating Facilities

Ensuring the integrity of concrete structures and, at the same time, protecting the surrounding environment is critical in the power industry. Xypex Crystalline Technology products have made an important contribution in waterproofing and protecting hydroelectric facilities, desalination plants, thermal and nuclear power stations and cooling tower basins.

J-Parc Synchrotron

Tokai-mura
JAPAN

XYPEX products used

- Concentrate

The Japan Proton Accelerator Research Complex (J-PARC) is a new high intensity proton accelerator using MW class high power beams up to 50 GeV – the highest beam power of any accelerator in the world.

The site is subject to a high water table and is adjacent to the ocean – presenting contamination challenges that could affect the accelerator's sensitive functions.

Xypex Crystalline Technology, because of its waterproofing effectiveness, resistance to the marine environment, and its compatibility with the radioactive process, was specified by major firms involved in the construction coalition that built the accelerator – a 3.5 km circular tunnel encased in concrete up to five meters thick. Xypex Concentrate was used on the mud slab and Xypex Dry-Pac was applied to the preformed horizontal keyways and non-expansion vertical construction joints. In a two-coat application, sixty tonnes of Xypex Concentrate was then spray-applied to the exterior walls and roof slab, covering a total area of 50,000 m^2.

POWER GENERATING FACILITIES

Wolsung Nuclear Plant

South Korea

Xypex products were used to repair cracks and coat surface areas in the intake and discharge conduits of this nuclear plant. The conduits are utilized in the process of cooling water.

Bogong Power Station

Bogong, Mt. Beauty, Australia

Xypex Admix C-Series was specified for use in 12,000 m³ of concrete for this new power station development, designed to provide an additional 140 MW to the Kiewa hydroelectric scheme. The Xypex system was used to enhance long-term durability and provide added waterproofing integrity for this vital infrastructure development.

Transformer Stations

Ljubljana, Slovenia

The chemical and chloride protection ability of the Xypex Crystalline Technology was put to use in repairing the deteriorating concrete structure underneath the transformers at this electrical facility. Xypex Concentrate and Patch'n Plug were applied to three transformer stations to prevent oily substances leaching into the surrounding soil.

Shoaiba Power & Desalination Plant

Red Sea, Saudi Arabia

This facility is considered one of the largest desalination plants in the world. The Xypex coating system was used to waterproof the pump house located below sea level and the concrete canals for intake and outtake of the sea water.

5.9 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 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.

Jacksonville Electrical Authority Wharf

Jacksonville, Florida
USA

XYPEX products used

- Admix C-1000 NF

The Jacksonville Electric Authority, supplier of electricity and water to the city of Jacksonville, is the operator of this wharf that serves as the receipt point for fuel oil used by their electrical plant. Two pipelines extend from the wharf to storage tanks at the rear of the plant.

During construction, a primary concern was maintaining the integrity of the concrete used in the pile driven piers. Engineers Black and Veatch and the contractor, Gate Concrete Products were familiar with the ability of Xypex Crystalline Technology to self heal any micro-cracks that might occur from the pile driving process and specified Admix C-1000 NF accordingly. Xypex Admix was also used in the U-beams and on the wharf's slab.

Overall, 160,000 lbs. (73,000 kg) of Xypex Admix C-1000 at a dosage rate of 1.5% of the cement content was blended into the concrete to provide waterproofing and chemical protection from the harsh marine environment.

Pennsylvania Turnpike

Pennsylvania, USA

In a four year program that involved the use of more than 1.5 million pounds of product, Xypex Admix was used in 150 miles of precast concrete barriers and 5 miles of retaining walls that serve the busy northeast U.S. connector.

Precast Septic Tanks

Nanaimo, British Columbia, Canada

To ensure protection from an aggressive environment, Xypex Admix C-500 was added to the concrete mix at time of batching for these precast septic holding tanks.

Vicksburg Sewer Main

Mississippi, USA

Xypex Admix C-1000 was added to the concrete pipe at a rate of 3% by weight of Portland cement. The Xypex additive was selected over a traditional protective coating, to provide chemical protection and to prevent water ingress and egress.

Hisense Arena

Melbourne, Australia

Xypex Admix C-1000 NF was blended into the concrete mix to waterproof and protect the precast bleachers for this multipurpose stadium (formerly named the Vodafone Arena). The seating design of this stadium is stunningly innovative and the contractors used the latest technology to ensure that the arena would accommodate a wide range of functions.