

AMATA WATER SUPPLYING PLANT

Amata Industrial Park, Bien Hoa, Dong Nai, Vietnam

Xypex was selected by Bechtel Corp., the project consultant, to supply Xypex Patch'n Plug and Xypex Concentrate to Construction Co. No. 394 with technical support to repair 160 meters of faulty subterranean construction joints at two 2,500 m³ potable water reservoirs against high hydrostatic pressure. Works completed in January, 1998.



AMATA TOWER TANK

Amata Industrial Park, Bien Hoa, Dong Nai, Vietnam

Following the successful repair of the reservoirs at the Amata Water Supply Plant, Xypex was selected by Bechtel Corp. again to waterproof a 500 m³ Tower Tank, 30 meters above ground. The Tower Tank was treated with a 2 coat system of Xypex Concentrate & Modified, all concrete defects was repaired with Xypex Patch'n Plug and Concentrate. All construction joints were sealed by Xypex Concentrate Dry-Pac method. Works completed in February, 1998. The main contractor for this project was CIENCO 6.



PHU MY 1 – FIRE WATER TANK

Ba Ria - Vung Tau, Vietnam

Defective concrete was repaired with Xypex Patch'n Plug then sealed with Concentrate Dry-Pac. After repairing the concrete, this 7 meter deep 600 m³ subterranean fire water tank was treated with a two coat application of Xypex Concentrate and Modified. Completed in late March, 1997



DAU TIENG DAM / RESERVOIR

Tay Ninh Province, Vietnam

After successful trial repair in 1997, Xypex is specified by Hydraulic Engineering Consultant No. 2, and supplied with technical support to waterproof approximately 400 m² of the upstream discharge chamber of the dam after its deteriorated concrete was repaired with a new layer of shotcrete. A two coat application of Xypex Concentrate and Modified was executed by Construction Co. No. 43 and completed in July, 2000.



PHU MY RAW WATER TANKS TRIAL REPAIR

Ba-Ria, Vung Tau, Vietnam

After over 6 months of testing with all available systems without success, Toa Corporation, the contractor of the Phu My Thermal Power Plant 1- Phase 2, requested a trial crack repair using the Xypex system from the exterior to these 16 m high tanks, with water level maintained at 15 m height. Using Xypex Patch'n Plug and Xypex Concentrate, the trial crack repair is confirmed to be 100% successful in February, 2001 by Toa's Quality Control Department. Prior to the Xypex trial, these tanks were waterproofed with an Australian liquid membrane together with a protective mortar topping, but it has totally failed under extreme hydrostatic pressure. Attempts to repair with other "crystalline" systems claiming the same as Xypex have also failed. Project was cancelled due to the high cost.



DAU TIENG DAM / RESERVOIR NEGATIVE REPAIR FROM DOWNSTREAM

Tay Ninh Province, Vietnam

After the successful waterproofing of the upstream discharge chamber of the dam with Xypex, Construction Co. No. 43 continued to execute a trial repair with the Xypex system on the downstream side against high hydrostatic pressure. The trial was conducted under the assistance of Xypex's Vietnam distributor, Vinh Hiep Hung Co., Ltd's technical support with great success during November, 2000. Official repair with Xypex system commenced in July 2001 and completed with great success.



DAISIN VIETNAM FACTORY***Bien Hoa Industrial Zone II, Dong Nai Province, Vietnam***

Xypex was selected to waterproof the waste and water treatment plants, grease traps, and waste pits by Obayashi Corporation, the main contractor. After repairing defective concrete, over 2,000 tie holes were sealed using Xypex Concentrate with a 2:1 cement mortar dosed with Admix C-2000 per weight of cement. Afterward, a two coat system of Xypex Concentrate was applied to all tanks. Due to the contractor's experience with Xypex in previous projects, construction joints were sealed with Xypex Concentrate Dry-Pac only, without installation of any waterstops. Total quantity treated was approximately 1,120 m² and 514 m of construction joints, completed in August, 2000. (Photo courtesy of Obayashi Corporation)

**EDS YAZAKI VIETNAM FACTORY*****Song Than I.P., Di An, Binh Duong Province, Vietnam***

Obayashi Corporation switched to Xypex for the main office roof at this factory after repeated repairs with the membrane system. The membrane and a 5cm thick concrete topping was removed to allow Xypex crack repair on the roof deck. A two coat system of Xypex Concentrate was then applied over the roof and gutter. Total roof area was approximately 925 m², completed in February, 2001. Prior to this, a septic tank, roofs of an office and an utility building were waterproofed with Xypex in July-August, 2000. A subterranean water tank was also repaired and treated with Xypex in November, 1997. Total area was approximately 1,217 m² and 345 linear meters of construction joints. (Photo courtesy of Obayashi Corporation)

**SANYO HOME APPLIANCES PHASE 1 & 2*****Bien Hoa Industrial Zone II, Dong Nai Province, Vietnam***

After waterproofing the Phase 1 office roof with a bitumenous membrane during the rainy season, the portion of the factory gutter switched to using Xypex to reduce application time. One septic tank, 2 roofs of a toilet room and an utility room were also waterproofed with a 2 coat system of Xypex Concentrate & Xypex Modified without any protection mortar. Following the excellent results, the main contractor, Obayashi Corporation continued to select Xypex to waterproof the factory gutters and a small roof at the Phase 2 of this factory. Total quantities treated were approximately 4,100 m². The project was completed in November 1996, and August 1997, respectively. (Photo courtesy of Obayashi Corporation)



VIETNAM COPPER WIRE (CADIVI) CFT-SCR-2000

Bien Hoa Industrial Zone I, Bien Hoa, Dong Nai, Vietnam

Xypex system was selected to waterproof and protect this factory's casting water treatment tank, casting return tank, raw water treat-ment tank, casting waste treatment tank, process cool / process hot tanks, fire fighting tank, and a roof gutter. Defective concrete was repaired and all tie holes sealed using Xypex Concentrate with a 2:1 cement mortar dosed with 2% Xypex Admix C-2000. A two coat application of Xypex Concentrate and Modified was applied to all areas. Obayashi Corporation was the main contractor, the project area treated was 730 m² and 221 m of construction joints. Complete in August, 1998. (Photo courtesy of Obayashi Corporation)



ROHTO MENTHOLATUM FACTORY

Vietnam-Singapore I.P., Song Be Province, Vietnam

Xypex system was selected by Hazama Corporation, the main contractor of this project, to waterproof electric cable pit, oil treatment pit, pH treatment pit, and fire hydrant pit. Roofs of the Factory building, HT Room, Pump Room, Guard House, as well as laboratory counters, and toilet areas were also treated. The floor slab of the Office building was also waterproofed with a thinner two coat system of Xypex Concentrate and Modified before a 15cm concrete topping was placed. Total area treated was 1,400 m² and 660 m of construction joints. Complete in June 1998.



KAO VIETNAM FACTORY

Amata Industrial Park, Dong Nai Province, Vietnam

Xypex was selected by the main contractor, Vinata International Joint Venture Co, Ltd. (a Taisei and Vinaconex joint venture company) for repairing leaks from construction joints of subterranean tank which was waterproofed by a popular Swiss product. Joints at a waste treatment tank, and an underground receiving tank were sealed successfully with Xypex Concentrate Dry-Pac method and protected with a layer of Xypex Patch'n Plug to prevent being wash out by the ground water prior to setting. A 2 coat system of Xypex Concentrate and Modified was applied over the roofs of mixing plant, office building, and 2 new underground tanks. Total area treated was 1,700 m², and completed in 1996.



MEIWA VIETNAM FACTORY

Bien Hoa Industrial Zone II, Dong Nai Province, Vietnam

2 coats of Xypex Concentrate was selected by the main contractor, Obayashi Corporation, to waterproof the roof gutters and planter box which is directly above the main entrance at this factory building. Total quantity was approximately 168 m² and 152 linear meters of construction joints. The work was completed in September, 2000. (Photo courtesy of Obayashi Corporation)



STORM DRAINAGE CHANNEL

Nomura-Haiphong Industrial Zone, Hai Phong, Vietnam

140 linear meters of expansion joints at intervals along the storm drainage channel waterproofed with bitumen material were leaking with unsightly stain from the ground water. Initial attempt to seal with a hydrophilic chemical sealant can not withstand the aggressive characteristics of the ground water. The joints were then cut and temporary plugged with Xypex Patch'n Plug, before a custom size PVC waterstop was installed with new concrete dosed with 2% Xypex Admix C-2000 per the weight of cement. After the new concrete was cured, Xypex Concentrate Dry-Pac and a coat of Xypex Concentrate was then applied over the joint between the new and old concrete. The joint repair continues the full length of 'U' shape channel and was repaired while there was constant water flowing at the bottom of the channel. Work completed successfully in January, 2000 for the Civil Projects Division of Obayashi Corporation.



HI-LEX FACTORY

Nomura-Haiphong Industrial Zone, Hai Phong, Vietnam

A water tank and a fire water tank of this factory were waterproofed with two coats of Xypex Concentrate. Although this was a small project, the main contractor, Obayashi Corporation, selected Xypex for the job to ensure the highest quality protection for the project. The work was completed in December, 1999.



DIAMOND PLAZA

District 1, HCMC, Vietnam

Xypex was selected by Posco Engineering & Construction Co., Ltd., the main contractor, to waterproof the diaphragm wall coves, a septic tank, potable water tank, fire water tank, 2 elevator pits, 1 electrical vault at the basement and exterior entrance decks at the ground floor.

After successful completion of the basement in early 1998, Xypex was awarded the above ground portions of this 21 story mix-use complex. This includes the roof machine room, toilets, bathrooms and laundry rooms. Total area treated was about 8,200 m², and completed in late 1998.



SUN WAH TOWER

District 1, HCMC, Vietnam

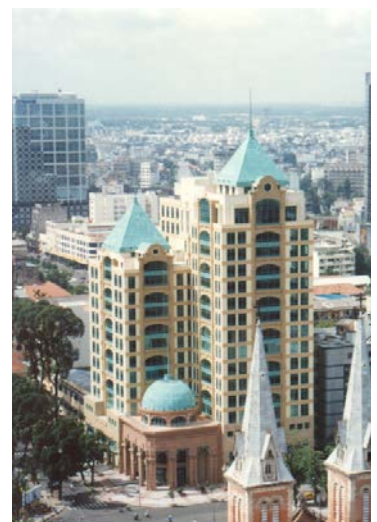
Another crystalline waterproofing system was specified for this 24 story office building by the designer. After its completion of the works in the basement, the main contractor, Shimizu Corporation switched to using Xypex for the waterproofing of the 3rd floor and the roof water tanks. Since leakage from these above grade tanks will definitely cause serious damages and inconveniences to the building occupants, the contractor was determined to use only the very best product available. Upon consulting with their Japan headquarters, the decision resulted in selecting Xypex for the job. Total area treated was 198 m² and 102 linear meters of construction joints. The work was completed in July, 1997.



THE METROPOLITAN

District 1, HCMC, Vietnam

After the construction is near completion, various cracks occurred at the basement due to structural settlement. Xypex was contacted by Leighton Asia Ltd. to repair 4 newly waterproofed tanks and septic tank of this prestigious high rise office building from the exterior against water pressure in 1997, using Xypex Concentrate & Patch'n Plug. Additional repairs extended to sealing ceiling cracks, leaks in elevator pit, basement walls and slab in 1998. The reason to select Xypex for the repair is due to the successful repair of the Vietnam Brewery's methane tank for Theiss, which is now a division of the Leighton Group. In early 2001, Xypex FCM was selected by the building management office, East Asia Property Group to seal the leaking expansion joints of the knockout panels at the main entrance which was previously waterproofed with a bituminous material.



THU DAU MOT PARK SWIMMING POOL

Binh Duong Province, Vietnam

Concrete defects at this swimming pool were so severe that it was considered for total demolition before Xypex comes to the rescue. All defective concrete were removed and repaired with Xypex Concentrate and Xypex Patch'n Plug. Total area repaired was approximately 170 m² and 80 linear meters of honeycombing construction joints. The repair proved to be 100% successful upon completion in February, 1998.



SPORT CENTER SWIMMING POOLS

District 4, HCMC, Vietnam

Xypex products were supplied with technical support to repair all leaking cracks and waterproofing to this Sport Center which includes an Olympic size swimming pool, an adjacent children's pool, and a bleacher deck. Total areas treated were approximately 3,000 m², and completed in January, 1997 by Petroleum Construction Co. (PECCO). The Olympic size pool is constructed on a raised deck, and inspection of all the Xypex treated areas in year 2001 confirms 100% success of the Xypex system.



SHUEN VIET APARTMENT COMPLEX

District 10, HCMC, Vietnam

After waterproofing Building Block B & D with bitumenous products, the owner switched to Xypex after testing several competitive products. A 2 coat system of Xypex Concentrate and Modified was applied to the central feature fountain and the roof gutters, 1 coat of Xypex Concentrate was applied to the terraces and balconies of Building Block A & Block C. Total areas treated was over 4,000 m², and was completed in May, 1997.



GEN PACIFIC OFFICE ROOF

District 3, HCMC, Vietnam

This old office roof was previously waterproofed with a bituminous coating and was leaking badly. The existing protection mortar and bituminous coating was totally removed to sound concrete. A two coat application of Xypex Concentrate and Modified was applied before finishing with a 50mm thick layer of protection mortar. Total area repaired was 388 m² and completed in December, 1998.



YAZAKI EDS WIRE-HARNESS FACTORY PHASE 1 - OFFICE ROOF REHABILITATION

Song Than Industrial Zon, Di An, Binh Duong, Vietnam

After repeated repairs of the membrane system at the office roof and gutter without success, Xypex was recommended to the Owner by the main contractor, Obayashi Corporation, for the rehabilitation of the roof. In addition to waterproofing, the decision to select Xypex is the system offers additional protection to the concrete roof which has many shrinkage cracks due to thermal stress and its 43 m length. The membrane and a 50mm protection concrete topping was removed, all cracks repaired by Xypex Concentrate Dry-Pac and a 2 coat system of Xypex Concentrate was applied to the roof deck. Total area treated was approximately 925 m², and completed in February, 2001.



VIETNAM GAS UTILIZATION PROJECT

Dinh Co, Ba Ria-Vung Tau, Vietnam

Existing mortar and insulation at the roofs of the Control Building and part of the Office Building were removed and waterproofed with a two coat system of Xypex Concentrate and Modified. Due to tight schedule, concrete crack repairs and construction joints were executed during the day while the coating of large surfaces was carried out at late afternoon throughout the evenings. The insulation boards and protection mortar were reinstalled by the subcontractor upon completion of the waterproofing. Total quantity treated was approximately 350 m² and 144 linear meters of construction joints. The main contractor is Samsung Construction Group & the repair works was completed in December, 1998.



ZEN PLAZA

District 1, HCMC, Vietnam

One thick coat of Xypex Concentrate was applied as a sandwich coat to the recessed face of the basement diaphragm walls prior to casting the beams and columns. This was done as a precaution because any leaks between the diaphragm wall and the beam or column will be very difficult to waterproof in the future. Total area treated was approximately 360 m² and 150 linear meters of construction joints. Completed in January, 1997, the building was previously named Southern Fortune and was later renamed as Zen Plaza..



BITEXCO HEAD OFFICE BUILDING

District 1, HCMC, Vietnam

After all other products had been tested without success, Xypex was selected to repair leaks at the diaphragm walls, a water tank, and a septic tank in the basement of a planned 20-story office building. All defective concrete and cracks were repaired using Xypex Concentrate and Patch'n Plug then coated with a two coat system of Xypex Concentrate and Modified. Areas with extensive cavities were filled with new concrete dosed with 2% Xypex Admix C-2000 per the weight of cement. Total area treated was approximately 300 m² and 70 linear meters of construction joints. Complete in June, 1998. The contractor for the basement diaphragm wall is Bachy Soletanche Group. The project was previously named Saigon Singapore Investment Project and is now known as the Bitexco Office Building.



DIAMOND PLAZA-BASEMENT SLAB REPAIR

District 1, HCMC, Vietnam

During the construction of this mix use development, continuous pumping of ground water was terminated near the completion of the basement. The bentonite waterstop used at the foundation slab immediately failed under extreme hydrostatic pressure, and the basement was continuously flooded to knee height within every 15 minutes if pumping was stopped. 16 strategic pits over the finish slab were cut open to allow Xypex's repair to the double slab to control the water flow between the double slabs. Concrete blocks pre-coated with Xypex Concentrate were set in place against continuous water flow using Xypex Patch'n Plug to contain the flow of water. The pits were then filled with new pours of mass concrete which was then coated with Xypex Concentrate, cutting off the water permanently. The repair was completed in the early part of 1998.



RIVERSIDE APARTMENT COMPLEX

Thu Duc District, HCMC, Vietnam

Roofs of the mini-mart, tennis club and restaurant buildings were waterproofed with a 2 coat application of Xypex Concentrate and Modified. A customized expansion joint formed with galvanized aluminum metal sheets and Xypex treated concrete curbs were also installed at the mini-mart building. Total areas treated were about 1,768 m² and completed in January, 1997.



JAPANESE CONSULATE GENERAL RESIDENCE

District 3, HCMC, Vietnam

Repaired an old concrete roof and gutters where repeated repairs with membrane system were unsuccessful. All existing mortar and membranes were removed and a 2 coat application of Xypex Concentrate and Modified was applied over the concrete roof. A protection mortar topping was then applied over the Xypex coating. Total area treated was 60 m² and completed in June, The main contractor is Hazama Corporation.



FUJITSU COMPUTER FACTORY PHASE 1&2

Bien Hoa Industrial Zone II, Dong Nai Province, Vietnam

Repaired the roof of an utility building in Phase 1 and waterproof the roof of the canteen building in Phase 2. The Xypex coatings were not protected with any insulation or protection mortar. Some toilet floors and wet areas of the slab were also waterproofed. Total area treated for both phases was about 298 m² and completed in August and November of 1997, respectively. The main contractor is Hazama Corporation.



VIETNAM BREWERY METHANE TANK

Hoc Mon District, HCMC, Vietnam

Repaired various leaks against strong hydrostatic pressure around the perimeter of a 7 meter height methane tank, which is under operation. The pressure leaks from cracks and construction joints were plugged with Xypex Patch'n Plug then sealed with Xypex Concentrate Dry-Pac. Seepage around tie holes previously sealed with a popular Swiss product were also repaired with the Xypex system. Total area repaired was approximately 65 linear meters of cracks and construction joints. The project was completed in June 1996 for Theiss Constructors, a division of Leighton Asia Ltd..



TAN THUAN WASTE TREATMENT PLANT

Tan Thuan EPZ, Nha Be District, HCMC, Vietnam

Supply materials and technical support to repair various leakages against high hydrostatic pressure from the exterior face of 11 tanks. Areas repaired include tie holes, construction joints, honeycombs, and cracks. Xypex was selected by Petroleum Engineering & Construction Co. (PECCO), the sub-contractor of this project, due to their previous success with Xypex. The considering factors to use Xypex is Xypex's excellent performance against negative moisture and resistance to aggressive chemicals. Project completed in November 1997.



TAN THUAN WATER RESERVOIR

Tan Thuan EPZ, Nha Be District, HCMC, Vietnam

Spot repaired a new 3,000 m³ reservoir from the outside against high hydrostatic pressure. Xypex Patch'n Plug and Concentrate was used to stop leaks by Dry-Pac method and coated repaired areas with Xypex Concentrate. At heavily honeycomb areas, defective concrete were removed to sound concrete then coated with a key coat of Xypex Concentrate before pouring new concrete dosed with 2% Xypex Admix C-2000. A later phase involved repairing critical areas inside the reservoir as requested by the Owner, Tan Thuan Company. The contractor was COTEC, and the work was completed in September 1997.



CORA SUPERMARKET WATER TREATMENT PLANT

An Lac, Binh Chanh District, HCMC, Vietnam

The 5 meter height water treatment facility at this Cora Supermarket was leaking badly after it was put into use. Repeated repairs to the interior membrane system by other products were un-successful, therefore Xypex was invited to spot repair a 16 meter section of the tank from the exterior while the tank was in operation. After initial repair proved successful in May, 2001, a 2nd phase repair involved repairing the interior of 2 additional tanks (due to access problem to the exterior) was completed in October, 2001. Total quantity repaired is approximately 30 meters of construction joints and 90 m² of tank walls. The contractor is General Construction Company No. 1, COFICO.



YAZAKI HAI PHONG VIETNAM FACTORY

Nomura Hai Phong Industrial Park, Hai Phong, Vietnam

Waterproof a septic tank, a water tank, and a roof gutter at this factory. Total quantity of work is approximately 262 m² and 190 linear meters of construction joints. As a standard practice with Xypex technology, no waterstops are used for the tanks. The main contractor is Obayashi Corporation and the work is completed in April, 2002.



UNI-PRESIDENT FACTORY PHASE III

Song Than II Industrial Park, Binh Duong Province, Vietnam

After repeated repairs to leaks in Phase I & II, Uni-President's Construction Manager directly appointed Xypex to be used for Phase III, which involves waterproofing a 5 meter deep basement. The slabs are treated by pouring Xypex Concentrate in slurry form over the reinforcing 24 hours before placing concrete. The walls are waterproofed from the exterior with a 2 coat system of Xypex Concentrate. 3 settlement joints are sealed with Xypex Concentrate Dry-Pac together with 2 coats of Xypex FCM. All construction joints are sealed with Xypex Concentrate Dry-Pac. Total quantity is approximately 750 m² and 147 meters of construction / settlement joints. The main contractor of the project is ACSC and the work was completed in October, 2002.



NOVOTEL VINH THUY HOTEL

Phan Thiet Province, Vietnam

This 6 story hotel which was previously waterproof with bitumen was leaking badly, Xypex was called in to provide technical guidance to repair concrete defects and waterproof the roof gutters, bathrooms, and balconies. The bitumen was totally removed before applying Xypex Concentrate and Modified. The two coat Xypex system was also applied to the gutters of the club house. Total area treated was over 3,000 m², material supplied in November, 1996. The main contractor was VINACO.



OMNI SAIGON HOTEL

Phu Nhuan Dist., HCMC, Vietnam

Xypex was selected by Shimizu Corporation, the main contractor, to repair a leaking planter at the swimming pool level in September, 1998, and again to re-waterproof 325 m² of the roof gutters at this hotel during April, 1999. Due to the success of the work, the hotel's engineering dept. retained the Xypex team to repair various leaks at the ceilings of top floor hotel rooms in September through November 1999, and throughout the year 2000.



SOFITEL PLAZA SAIGON HOTEL

Dist. 1, HCMC, Vietnam

Xypex was selected by the Owner to repair the cracked perimeter parapet cap that was causing delay to the painting of the facade due to excessive moisture behind the walls. Cracks were chipped to a 'U' shape groove and patched with Xypex Patch'n Plug and Concentrate then followed with a coating of Xypex Concentrate over the plaster of the parapet cap. Total quantity was approximately 390 linear meters. The work was completed in August 2001.



GREEN HOUSE OFFICE BUILDING

117-199-121 Nguyen Du St., Dist. 1, HCMC, Vietnam

The basement slab, walls, water tank, water treatment tank, elevator pit, and construction joint at the foundation slab were waterproofed with Xypex Concentrate coatings. Estimated quantity for the basement is approximately 1,000 m² and 300 meters of construction joints. The above ground portion of the building will also use xypex for the toilets and roof. The design consultant is Minh Nguyen Design & the main contractor is Phuoc Thanh Construction Co. Project completed in September 2008.



PARK HYATT HOTEL

BASEMENT LEAK REPAIR

101 Hai Ba Trung St., Dist. 1, HCMC, Vietnam

After the initial waterproofing using a membrane for the slab and a popular Swiss product for the diaphragm walls, there were a lot of leaks during rainy season. Repeated repair by the previous products have frustrated the Owners. After careful consideration by Impresa Ing. Fortunato SpA (the foundation slab contractor) and Ing. Giovanni Rodio & C. Impresa Construzioni Speciali SpA (the diaphragm wall contractor), Xypex was selected to repair construction joints at the slab, elevator pits, and several major areas at the diaphragm walls against strong negative hydrostatic pressure. Total quantity treated was 290 m² and 250 linear meters of construction joints. Work successfully completed in June 1997.



SAIGON INDUSTRY & TRADE BANK HQTRS

2C Pho Duc Chinh St., Dist. 1, HCMC, Vietnam

Xypex is selected to waterproof the basement, water tank, elevator pit, and a roof water tank. The tanks were constructed without installing waterstops at the construction joints. Total quantity is 545 m² and 190 meters of construction joints. The main contractor is COFICO. Project completed in March, 2003.



UNI-PRESIDENT FACTORY

My Tho Industrial Park, Tien Giang Province, Vietnam

Due to successful waterproofing of Uni-President's factory in Song Than Industrial Zone, Xypex is selected by the Owner to waterproof the basement of this production plant. Total quantity is 1,500 m² for the walls and slab, 250 meters of construction joint and 3,660 tie holes. Work completed in February 2006. In the 2nd Phase, Xypex continue to waterproof a potable water tank, a septic tank and a grease trap. Total quantity is an additional 1,200 m² for the walls and slab, 400 meters of construction joints and 4,500 tie holes. Project completed in March 2006.



NOK VIETNAM FACTORY

Amata Industrial Park, Dong Nai Province, Vietnam

Xypex waterproofed the Water Tanks, Septic Tank, Sump Pits, Water & Waste Treatment Tank, and 2 toilets. Total quantity is approximately 650 m² and 250 linear meters of construction joints. All construction joints are sealed by Xypex Concentrate Dry-Pac method without the installation of waterstops. Project completed in May 2005.



AN DUONG SHOPPING CENTER

District 1, HCMC, Vietnam

This four years old building waterproofed with membrane was deteriorating and leaking badly. Minh Nguyen Design & Construction Co., the main contractor, selected Xypex Vietnam to re-waterproof the roof and all the toilets during the rehabilitation of the structure into a high end office building with showroom of home furniture/appliances at the ground floor. The works was completed November 2008.



BUON MA THUOT SANITATION

SUB-COMPONENT

Buon Ma Thuot City, Dak Lak Province, Vietnam

Xypex was specified by Carl Bro als, the design consultant, to supply and provide technical support to coat approximately 1,500 m² surface of 15 concrete structures in this sanitation project. Xypex was selected for its proven reputation in concrete protect against harsh environment. The work was carried out by the sub-contractor, Tan Viet Tin Construction Co. under the supervision of Per Aarsleff A/S, the main contractor of the project. Work started in June and completed by the end of July, 2004.

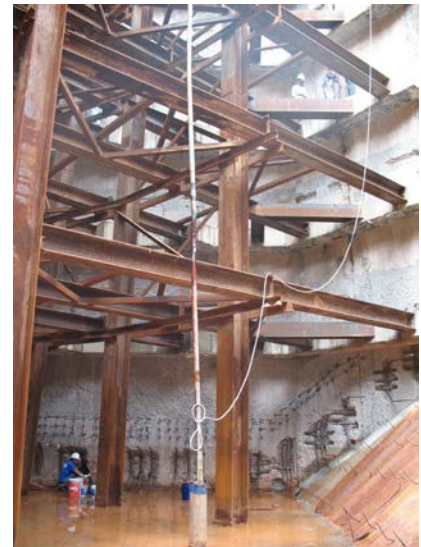
(Aerial Photo courtesy of Per Aarsleff A/S)



HCMC WATER ENVIRONMENT PROJECT - INTERMEDIATE WASTEWATER PUMP STATION, PACKAGE C & PACKAGE D

Ho Chi Minh City, Vietnam

Xypex was selected by the N.E.S. Joint Venture (Nishimatsu-Ebara-Shimizu) and approved by the design consultant, to supply and provide technical assistance to Bachy Soletanche for the repair of this pump station's diaphragm walls. The walls of this pump station measured 20 meters high and 1.5 meter thick. To assure the crystallization growth to fully reach its depth within a limited time span, holes were drilled deep into the concrete then Xypex Concentrate Dry-Pac were packed into these holes. After filling up the holes with 2:1 cement mortar dosed with Xypex Admix, Xypex Concentrate Dry-Pac were again applied over the cement mortar and covered with Xypex Patch'n Plug to protect the repair from immediate ponding due to heavy rain. After successful completion in early 2008. Xypex was also used in Package D, for repairing manholes, pipes & misc. leaks from 2008- 2009.



DAU TIENG HYDRO-POWER STATION

Duong Minh Chau Hamlet, Tay Ninh Province, Vietnam

Repair leaks along construction joints at the turbine discharge tunnel. All construction joints are sealed by Xypex Concentrate Dry-Pac method without use of waterstops. Total quantity is 100 m² and 150 meters of construction joints, completed in December 2004.



OFFICE BUILDING

26-28 Ham Nghi, District 1, HCMC, Vietnam

Xypex is again selected for the basement, water tank, septic tank, elevator pits and roof of this project. The total quantity is 600 m² and 95 meters of construction joint. Project was by Minh Nguyen Construction Co. and was completed in November 2006.



MY PHU HUNG OFFICE BUILDING

102 Cong Quynh St., District 1, HCMC, Vietnam

Xypex was recommended to the Owner after the contractor, Minh Nguyen Construction Co. observed the result of Xypex at the Ms. Ao Dai Department Store. Xypex was used to plug all water leaks at the lean concrete slab and wall in order to allow the placement of the foundation slab and walls. Total quantity was approximately 1,400 m² with over 200 linear meters of construction joint. Works completed in late October 2005.



OFFICE BUILDING

67 Ham Nghi St., District 1, HCMC, Vietnam

Xypex was again selected by Minh Nguyen Construction Co. to waterproof the basement, diaphragm wall, water tank, septic tank, roof and elevator pits of this project. Total quantity was 800 m², and 125 meters of construction joint. Project completed in December 2006.



BITEXCO OFFICE BUILDING

25 Nguyen Hue St., District 1, HCMC, Vietnam

Repair leaks at diaphragm walls, water tank, and a septic tank in a newly constructed basement of a 20-story office building. All defective concrete and cracks are routed out and plug with Xypex Concentrate and Patch 'n Plug, then coated with a 2 coat system of Xypex Concentrate and Modified. Areas with extensive cavities were filled with new concrete mix at 2-part cement to 1-part sand with a 2 % dosage of Xypex Concentrate Admix C-2000. Total area treated was approximately 300 m² and 70 linear meters of construction joints. The foundation contractor is Bachy Soletanche. Repair completed in June 1998.



PARK CENTRAL OFFICE BUILDING

208 Nguyen Trai St., District 1, HCMC, Vietnam

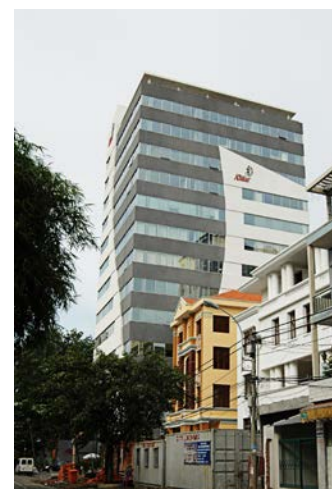
The basement slab, walls, water tank, water treatment tank, elevator pit, and construction joint at the foundation slab were waterproofed with Xypex Concentrate coatings and Dry Pac. Xypex Admix C-2000 at 2% dosage was used for 40 m³ of concrete at the perimeter foundation beams. Estimated quantity for the basement was approximately 1,600 m² and 465 meters of construction joints. Works completed in July 2003.



MISS AO DAI DEPARTMENT STORE

21 Nguyen Trung Ngan St., District 1, HCMC, Vietnam

Xypex was hand-picked by the Owner after careful research of various waterproofing products for the basement of this 18-story high-rise commercial building. Total quantity was approximately 1,400 m² with over 200 linear meters of construction joint for the basement. Work completed August 2005.



THE EVERRICH

940B Ba Thang Hai St., District 11, HCMC, Vietnam

Xypex was recommended by the design consultant, Chan Phuong Engineering, to Phat Dat, the Developer, to waterproof the basement slabs, domestic water tank, septic tank, and elevator pits after witnessing the foundation contractor, Bachy Soletanche Vietnam, repaired all pressure leakages at the diaphragm walls under Xypex's technical support. Initial contracted quantity is 13,000 m² w/ 950 meters of construction joint. After the successful completion of the basement at the end of 2008, Xypex is awarded the above-ground portion of 25,000 m², covering 2 public pools, 10 penthouse pools, roofs, terraces, 2 roof tanks, all planters and balconies. Work is scheduled to complete by October 2009. The construction management is by Meinhardt Vietnam. The design architect is Ong & Ong Architects.



FIDECO TOWER (VP BANK) BASEMENT

37-39 Ham Nghi St., District 1, HCMC, Vietnam

Xypex is contracted with the foundation contractor, Bachy Soletanche Vietnam, to repair the basement diaphragm walls. Afterward the main contractor, COFICO, purchased Xypex with technical support to waterproof the basement slab, septic tank, water tanks and elevator pit for this project. The estimated quantity was approximately over 2,000 m² and 350 meters of construction joints. Works completed in April 2007.



THUAN KIEU PLAZA

190 Hung Vuong Blvd., District 5, HCMC, Vietnam

Xypex was selected to seal a leaking basement expansion joint. The leaks at the expansion joint were first plugged with Xypex Patch 'n Plug followed by Xypex Concentrate Dry-Pac to temporarily stop the leak. Then Prime Flex 900LVSF (*a liquid hydrophilic polyurethane resin that expand up to 700%*) using the activated oakum method was installed & plugged with cement mortar mixed with 3:1 solution of Xycrylic Admix to create a flexible pressured seal. Later, 2 escalator pits & 1 elevator pit were waterproofed with a standard 2 coat system of Xypex Concentrate and Modified. Total area treated was approximately 156 m², 34 linear meters of construction joints, and 21 linear meters of expansion joints. Finally, all podium expansion joints were sealed with silicon sealants. Works completed in October 1998.



HUNG VUONG PLAZA

District 5, HCMC, Vietnam

Xypex was selected by the main contractor, General Construction Co. No. 1 (COFICO), to waterproof the domestic water tanks, fire fighting tank, roof tanks, & the rooftop swimming pool for this project. The estimated quantity was approximately 3,300 m² and 550 meters of construction joint. Works commenced in October 2006 and completed December 2007. The developer is Kinh Do Joint Stock Company & Saigon 5 Trading Joint Stock Co. The project management for the project is AIC Management.



CENTEC TOWER

District 1, HCMC, Vietnam

This high-rise office building just completed installation with a well known membrane system to its 3-level basement and is heavily flooded by ground water. Since the membrane cannot be repaired, Bachy Soletanche Vietnam introduced Xypex to Southern Star Corporation, the Owner, to save the project. The contracted quantity is approximately 2,200 m² of slab and 300 meters of construction joints. Within 6 weeks of work, the basement is totally dried. Bachy Soletanche Vietnam also use Xypex materials to repair the diaphragm wall. COFICO is the main contractor & Delta is the contractor of the basement slab. The Xypex repair completed with 100% success in December 2008.



KUMHO ASIANA PLAZA

District 1, HCMC, Vietnam

The architectural design firm, Gruen Associates Inc. specified Xypex for the water tank, & septic tank of this US\$220 million complex that includes shopping center, high-rise office, hotel, & apartment building. Total quantity is approximately 1,600 m², and DT&T Co., Ltd. is the waterproofing sub-contractor applying Xypex. The Xypex works completed towards the end of 2008.



GROBEST & IMEI INDUSTRIAL - PHASE 1

Bien Hoa I. P.2, Bien Hoa, Dong Nai Province, Vietnam

The 1st equipment pit under high hydrostatic pressure was just completed using another cementitious membrane, serious leaks occurred throughout the whole system causing flood in the basement. After repairing with other competing cementitious waterproofing products without success, Xypex was called in to immediately sealed the leaks & re-waterproof the whole basement. Total quantity is approximately 570 m² and 250 m of construction joint, completed in August 2004. Following the success, the 2nd basement was awarded to Xypex. Total quantity for the 2nd basement is approximately 650 m² and 250 meters of construction joints, works complete in April 2004.



BLUESCOPE STEEL FACTORY

Phu My I Industrial Zone, Ba Ria-Vung Tau, Vietnam

Xypex is selected by the Owner’s consultant to waterproof the basement pits and water tanks for this project with an estimated quantity of 2,919 m². The decision to use Xypex is its capability to be applied during rainy conditions and can be backfilled immediately after 36 hours of moist curing. Work commence on the basement pits in April, 2004 with additional works to complete in consecutive phases before the end of December 2004.



GROBEST & IMEI INDUSTRIAL - PHASE 2

Bien Hoa I.P. 2, Bien Hoa, Dong Nai Provinc, Vietnam

After successful repair of the equipment pit in Phase 1 construction, Xypex wins the confidence of the client and was awarded the waterproofing job for the 2 pits of Phase 2. A two-coat system of Xypex Concentrate was coated on the wall and slab of the pits and Xypex Concentrate Dry-Pac was used to seal all construction joints. Total quantity is approximately 700 m2 and 100 meters of construction joint. Work completed in October 2004.



KONDO VIETNAM DYE FACTORY

My Phuoc Industrial Zone, Binh Duong Province, Vietnam

Xypex's Concentrate 2 coat system is selected to waterproof toilets, roof, guardhouse, and water tank at this factory. Total quantity treated is 1,200 m², 300 meters of fillet, and 500 meters of construction joints. Works completed in December 2005.



SHOWA GLOVE FACTORY

Vietnam Singapore I.P., Binh Duong Province, Vietnam

Xypex is again selected to waterproof and protect all water tanks, a water treatment plant, and a waste treatment plant of the factory. Total area is approximately 2,400 m² with 7,054 tie holes, and 694 meters of construction joints. All construction joints are sealed by Xypex Concentrate Dry-Pac method without use of waterstops. Works completed in July 2004.



TOMIYA SUMMIT GARMENT FACTORY

Loteco I.P., Dong Nai Province, Vietnam

Waterproof roofs of office, canteen, guard house, and factory gutters. The main contractor's decision to switch to Xypex from the original membrane is because membrane systems have too many difficulties applying under rainy season. Moisture in the slab can cause adhesion problem with membrane systems but is perfect for applying Xypex. Total quantity is 1,170 m² and 360 meters of construction joints. Works completed in August, 2003.



VINCOM A PLAZA

Le Loi Street, District 1, HCMC

After the serious leakage at the Phase 1 Vincom Plaza basement, the Owner requested the diaphragm wall contractor, Bachy Soletanche Vietnam, to apply Xypex Concentrate coatings over all the diaphragm walls, and use Xypex Concentrate Dry-Pac to seal all the vertical construction joints and coat all the diaphragm walls of the 2nd phase. Works commence in April 2011 and completed 2012.



SAIGON M&C TOWER

District 1, HCMC, Vietnam

This 40 story office development is located right next to the Saigon River with a five level basement. Xypex Concentrate and Patch'n Plug were used initially by Bachy Soletanche Vietnam to repair concrete defects at the diaphragm walls. Due to proven success, the main contractor, Bouygues Batiment International's concrete expert specified Xypex Admix to waterproof the slab of its lowest level basement after a 6 month extensive testing conducted in the laboratory by the concrete supplier, Holcim Vietnam. The total quantity was approximately 2,000 m³ of concrete dosed with 0.9% Xypex Admix C-1000NF for the top 30cm thickness for the 5th level basement slab, and sealed 1,500 meters of construction joints with Xypex Concentrate Dry-Pac. In addition, Xypex Concentrate coatings were applied to 110 m² of diaphragm wall at the raft slab, and sealed 672 m of vertical construction joints with Xypex Concentrate Dry-Pac.



VIETCOMBANK TOWER

5 Me Linh Square Street, District 1, HCMC

Xypex is selected by the diaphragm wall contractor, Bachy Soletanche Vietnam, to supply and provide technical support to repair defective concrete at all serious leakage portions of the diaphragm wall's construction joints and rebar penetrations at the joints to basement slabs. After the successful repair of the diaphragm walls in November 2012, the Owners requested Bachy Soletanche Vietnam to waterproof all 4 levels of the diaphragm wall with Xypex Concentrate coatings. Total quantity is 3,600 m² and 505 linear meters of construction joints. Works started in April 2011 and completed in late 2015.



VINHOMES CENTRAL PARK

LANDMARK TOWER

Tan Cang Street, Binh Thanh District, HCMC

Xypex is selected by Bachy Soletanche Vietnam, to supply and provide technical support to repair all defective concrete piles. Construction joints, and rebar penetrations along the perimeter of the basement slabs are sealed with Xypex Concentrate Dry-Pac and Xypex Concentrate coatings at the diaphragm walls by Delta Construction. Xypex Patch'N Plug is used to stop any pressure leaks. Another 90 pails of Xypex Concentrate were supplied with technical support to Coteccon to seal the pile caps of the matt foundation. Work completed 2017.



VINHOMES CENTRAL PARK

RESIDENTIAL BLDGS - PHASE 1

Tan Cang Street, Binh Thanh District, HCMC

Due to extreme hydrostatic pressure of ground water right next to the Saigon River. Xypex materials were supplied with technical support to Delta Construction JV Co. for repairing defective concrete, and sealing rebar penetration along the perimeter of the diaphragm walls of this residential development. Additional portion of the works also include waterproofing the basement slabs, lift pits, and water tanks for the initial 4 high rise residential buildings of the Phase 1 of this project. 300 pails of Xypex Concentrate were supplied by August 2016.



VINHOMES BA SON GOLDEN RIVER- PHASE 1

02 Le Duan Street, District 1, HCMC

Xypex is again selected by Bachy Soletanche Vietnam to supply and provide technical support for defective concrete repairs at the diaphragm wall's construction joints and rebar penetrations. Because this site is the former Ba Son Ship Yard right by the Saigon River and after witnessing the effects of Xypex used in the Saigon Center Phase 2 & 3's basement repai3, the main contractor for the 6 towers of the 1st Phase, Hoa Binh Construction, decides to use Xypex to repair the initial 12,000 m² basement and the capping beams of the first phase. Xypex materials supplied in 2017.



SAIGON CENTER PHASE 2-3 D-WALL REPAIR

Le Loi Street, District 1, HCMC, Vietnam

The expansion of Saigon Center, the first high rise project in Vietnam, includes an addition of a 6-level basement connecting to the existing 3-level basement. The diaphragm wall contractor, Bachy Soletanche Vietnam selected Xypex as the sole repair system to seal all defective concrete, and also to seal all leaks from the inside face of the diaphragm walls. The Main Contractor of the project is Hoa Binh Construction. After witnessing the result of Xypex's effectiveness in sealing against negative hydrostatic pressure leaks and its reliability throughout the basement project, they decided to use Xypex on The Vinhomes Ba Son Golden River basements.



HCMC METRO LINE 1, PC1B D-WALL REPAIR OPERA HOUSE STATION

Le Loi St and Nguyen Hue St., District 1, HCMC

Xypex is selected by Bachy Soletanche Vietnam, the Diaphragm Wall Contractor, as the primary concrete and leak repair system for this 5-level underground station along Nguyen Hue street & Le Loi Street. The project started in March 2015 and schedule to complete in 2019. After a continuously observation of the successful results, in November 2016, Shimizu-Maeda JV, the Main Contractor, is considering a proposal to use Xypex coatings for all of the diaphragm walls for the Opera House Station as well as the Ba Son Station.



HCMC METRO LINE 1 PACKAGE 2 CRACK REPAIRS AT 6 METRO STATIONS

HCMC, Vietnam

Xypex Vietnam is selected by GS Engineering & Construction to repair approximately 650 linear meters of cracks at the five newly constructed aboveground Metro Stations. Cracks are cut to a U-shape groove and plugged with Xypex Concentrate Dry Pac, then followed with 2 layers of Xypex Concentrate slurry coat. Xypex was chosen after trial repair comparing with Sika materials. Hoa Binh Construction is the subcontractor to monitor the repair process for the Metro stations in Thao Dien, Cat Lai, Rach Chiet, Binh Thai, Thu Duc, and High Tech Park. Repair completed early 2018.



**HCMC MRT Line 1 CP1B Opera House Station
Le Loi & Nguyen Hue Blvd.
Dist. 1, HCMC, Vietnam**

After trial application against another crystalline system, Xypex is the clear choice and selected by the MAUR and the Main Contractor SMJO to waterproof the entire diaphragm wall system of this station.

Application commenced since March 2018 on repairing concrete defects and leakage before proceeding to spray 2 coats of Xypex Concentrate onto all 5 levels of basement Diaphragm Walls (up to 35-meter depth). Estimated quantity is 11,800 m² excluding concrete and leak repairs. Project is on-going as of June, 2018.



**HCMC MRT Line 1, CP1B
Ba Son Station Basement D-Wall Leak Repair
Dist. 1, HCMC, Vietnam**

A section of the diaphragm wall was replaced with pilings due to soil conditions at this 20-meter depth two level basement, right against the Saigon River. Extreme flow of water was leaking into the basement and cannot be stopped after repeated injection grouting, and construction cannot proceed with the basement slab so Xypex was called in as a last option.

After over a month of negative repair against extreme hydrostatic pressure along the 70+ meters of vertical construction joints at the piling section, and several areas of the diaphragm wall, all leaks are stopped to enable pouring of the basement B-2 slab to stabilize the diaphragm walls.

The Main Contractor is Shimizu Maeda Joint Operation (SMJO), pilings subcontractor is BAUR, and D-Wall subcontractor is LICOGL. Repair completed in June, 2018.



B-Braun Vietnam Factory Expansion

Thanh Oai I.P., Ha Tay Dist., Hanoi

Xypex is specified by HBP for the factory slab of the new expansion. Instead of coating over the slab, Xypex Concentrate is mixed into slurry form and pour over the reinforcing steels onto the lean concrete one day prior to placing the slab. The Xypex slurry dosage is 1.3 kg/m² and it will penetrate upward from underneath the slab, leaving the top of slab clean for floor coating. The main contractor is Shimizu Corporation and the work is applied by Xypex Vietnam. The total quantity is 5,630 m² of factory slab and the project completed in late 2014.



Konishi Vietnam Biotechnology Plant

Que Vo I. P., Bac Ninh Province, Vietnam

This plant is being developed by Konishi Vietnam Biotechnological Co., Ltd., a subsidiary of Nippon Zoki, and will be put into operation in April 2014. This plant will make pharmaceutical products extracted from the skin of white rabbits. Obayashi Corporation, the main contractor, selected Xypex Vietnam to supply and provide technical support to apply 2 coats of Xypex Concentrate to 48 underground tanks, at a total quantity of over 7,000 m².



Dai Quang Minh – Sala New City

Sarimi & Sarina Developments

Dist. 2, HCMC, Vietnam

Sarimi–Xypex is invited to perform negative repairs to the underside of the terrace and pool area of Block M1 and M2 of this project after previous repairs failed. All repairs completed with excellent results.

Sarina–Following the successful repairs for Sarimi, Xypex is awarded the contract to waterproof all roofs, terraces, and water features of Block A, B and C of this project. Total quantity is around 7,000 m², project completed in June, 2018

