OUR PRODUCTS
Concrete Waterproofing by Crystallization™
Xypex products are specifically designed to waterproof and protect concrete structures. Fundamental to the Xypex product line is the unique Xypex Crystalline Technology which generates a distinct crystalline structure within the pores and capillary tracts of the concrete matrix. This crystalline formation is non-soluble and permanent, sealing concrete against the penetration of water and other aggressive liquids from any direction, even under extreme hydrostatic pressure. Whether installed as a coating, a dry-shake or an additive, Xypex’s unique chemical treatment has been proven around the world, addressing a variety of demanding construction situations. Customer confidence in Xypex products is supported through extensive independent testing, numerous approvals and certifications, and a far-reaching technical support network.

THE CRYSTALLINE DIFFERENCE
The reactive chemicals in Xypex migrate throughout the concrete matrix and react with water and the by-products of cement hydration to form a permanent, non-soluble crystalline structure within the capillary tracts and pores of the concrete to seal and render it impenetrable to water and other liquids from any direction.

XYPEN PRODUCTS
“From the outset, our primary mission has been to provide state-of-the-art products...synonymous with Xypex products is their uniqueness, superior performance and high quality.”

For over forty years, the Xypex crystalline waterproofing system has been used on a multitude of concrete structures around the world in varied climates and site conditions.

To meet the challenges of changing construction practices, divergent global environments and specific customer requirements, Xypex has continually developed and expanded its line of products. The Xypex Crystalline Technology remains at the core of this line that has evolved into an integrated system of coatings for existing concrete, dry-shakes for fresh slabs, additives for ready-mix concrete and various concrete repair materials. For architects, engineers and contractors this versatility of the Xypex product range is a proven asset for the value engineering process and flexibility of the construction schedule.

Regular quality assurance evaluations are carefully conducted by independent agencies and all of our processes satisfy the rigorous quality standards of ISO 9001:2008. The many aspects of our operation are all of the highest quality - from material sourcing, production practices, packaging, and technical literature to our thoroughly trained personnel ready to answer any technical enquiry.

Our worldwide quality reputation is a source of pride, having been built upon the provision of products and services that consistently satisfy, and frequently exceed our customer expectations. We will continue to enhance and expand our product line and address the challenges and demands of an ever-changing global construction industry.

Vic Barber
DIRECTOR OF OPERATIONS
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From the outset, our primary mission has been to provide state-of-the-art products for the waterproofing, protection and repair of concrete structures. Synonymous with Xypex products is their uniqueness, superior performance and consistent high quality.

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Concentrate & Modified

Xypex coating products are applied to the surface of existing concrete structures. Xypex Concentrate is the most chemically potent of the Xypex crystalline coating products and is a grey powdered compound that is mixed with water and applied as a cementitious slurry by either brush or spray-machine. It is specifically designed to waterproof and protect existing above-grade or below-grade applications where there are high hydrostatic pressures. For applications with aesthetic considerations, Concentrate and Modified are available in white versions. Concentrate can also be used in Dry-Pac form where a higher chemical potency is needed such as for crack sealing, treatment of construction joints and repair of structural defects. Xypex Modified can be applied as a second coat to chemically reinforce Concentrate or may be used as a single coat for damp-proofing of exterior foundation walls.

Admix C-Series

C-500, C-1000 & C-2000

Xypex Admix is added to concrete or mortar at the time of batching. Admix C-500, C-1000 and C-2000 have been formulated to satisfy specific concrete mix designs, diverse project requirements and ambient temperature variations. Xypex Admix C-Series provides the construction industry with a convenient, cost-effective waterproofing solution for delivering the unique Xypex crystalline technology. Xypex Admix C-Series is available in a variety of conveniently sized packaging including Xypex’s innovative soluble bag solution that provides ease, accuracy and a dust-free environment for installation. All Admix products are also available in the No-Fines grade.

Concentrate DS-1 & DS-2

Xypex DS-1 and DS-2 are design variations of Xypex Concentrate and are formulated specifically for dry shake installation into freshly poured concrete slabs. Concentrate DS-1 provides the equivalent waterproofing and chemical protection as a coating application. Concentrate DS-2 is used where, in addition to waterproofing, greater resistance to impact and abrasion is also required. The DS powder is dispersed evenly by hand or mechanical spreader onto the freshly poured horizontal concrete surface, floated into the plastic concrete and power-trowelled to the desired finish. The dry shake application method reduces the risk of scaling, dusting and delamination commonly associated with coating applications to horizontal slabs. Xypex DS Series eliminates the need for additional curing and prevents any delay for the contractor in gaining access to the slab to continue the project.

Patch’n Plug, Megamix I & II

Xypex has developed a number of products used in the repair and rehabilitation of concrete. Xypex Patch’n Plug is a fast-setting, non-shrink, high bond strength hydraulic cement compound enhanced by Xypex’s crystalline technology. Patch’n Plug can stop flowing water in seconds and is also used to repair defects in concrete, including crack sealing, faulty construction joints, honeycombing and tie holes. Megamix I is a thin parging coat for the waterproofing and resurfacing of vertical masonry or concrete surfaces and is frequently used as an architectural rendering. It also has excellent chemical durability for specific industrial applications. Megamix II is a thick repair mortar for the patching and resurfacing of deteriorated concrete. Megamix II has been specifically formulated to produce superior bond, low shrinkage, chemical durability and high strength.
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Xypex products have been tested extensively by accredited laboratories worldwide for critical performance factors including “permeability of concrete” and “chemical resistance”.

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<tr>
<th>Institution</th>
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<tbody>
<tr>
<td>U.S. Army Corps of Engineers (USACE)</td>
<td>CRD C48-73 Permeability of Concrete, Pacific Testing Laboratories, Seattle, USA</td>
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<tr>
<td>Hosei University</td>
<td>Permeability of Concrete, Civil Engineering Department – Hosei University, Tokyo, Japan</td>
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<td>Universidad de los Andes</td>
<td>Test of Permeability of Concrete, Departamento de Ingenieria Civil y Ambiental, Laboratorio de Estructuras Geotecnia y Pavimentos, Bogota, Colombia</td>
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<td>British Board of Agrément</td>
<td>Permeability of Concrete Containing Xypex Admix, Watford, UK</td>
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<td>Klokner Institute of the Czech Technical University</td>
<td>Evaluating Depth of Water Penetration Under Pressure, DIN 1048 / EN 12390-8, Prague, Czech Republic</td>
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<td>Institute of Civil Engineering, Technology and Testing</td>
<td>Impermeability and Resistance to Various Fluids and Resistance to Pressurized Water, Institute of Civil Engineering, Technology and Testing, Bratislava, Slovak Republic</td>
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<td>Setsco Services</td>
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<td>Aviles Engineering Corporation</td>
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<td>Australia Centre for Construction Innovation</td>
<td>Chloride Diffusion by NordTest with 16.5% NaCl solution of 40 MPa Concrete Containing Admix C-500, University of New South Wales, Sydney, Australia</td>
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<td>Japan Atomic Energy Research Institute (JAERI)</td>
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<td>Kleinfelder Laboratories</td>
<td>Compressive Strength of Cylindrical Concrete Specimens, ASTM C 39, San Francisco, California, USA</td>
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<td>Metro Testing Laboratories Ltd.</td>
<td>Direct Tensile Strength of Megamix II Mortar Specimens, ASTM D 7234, Vancouver, Canada</td>
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