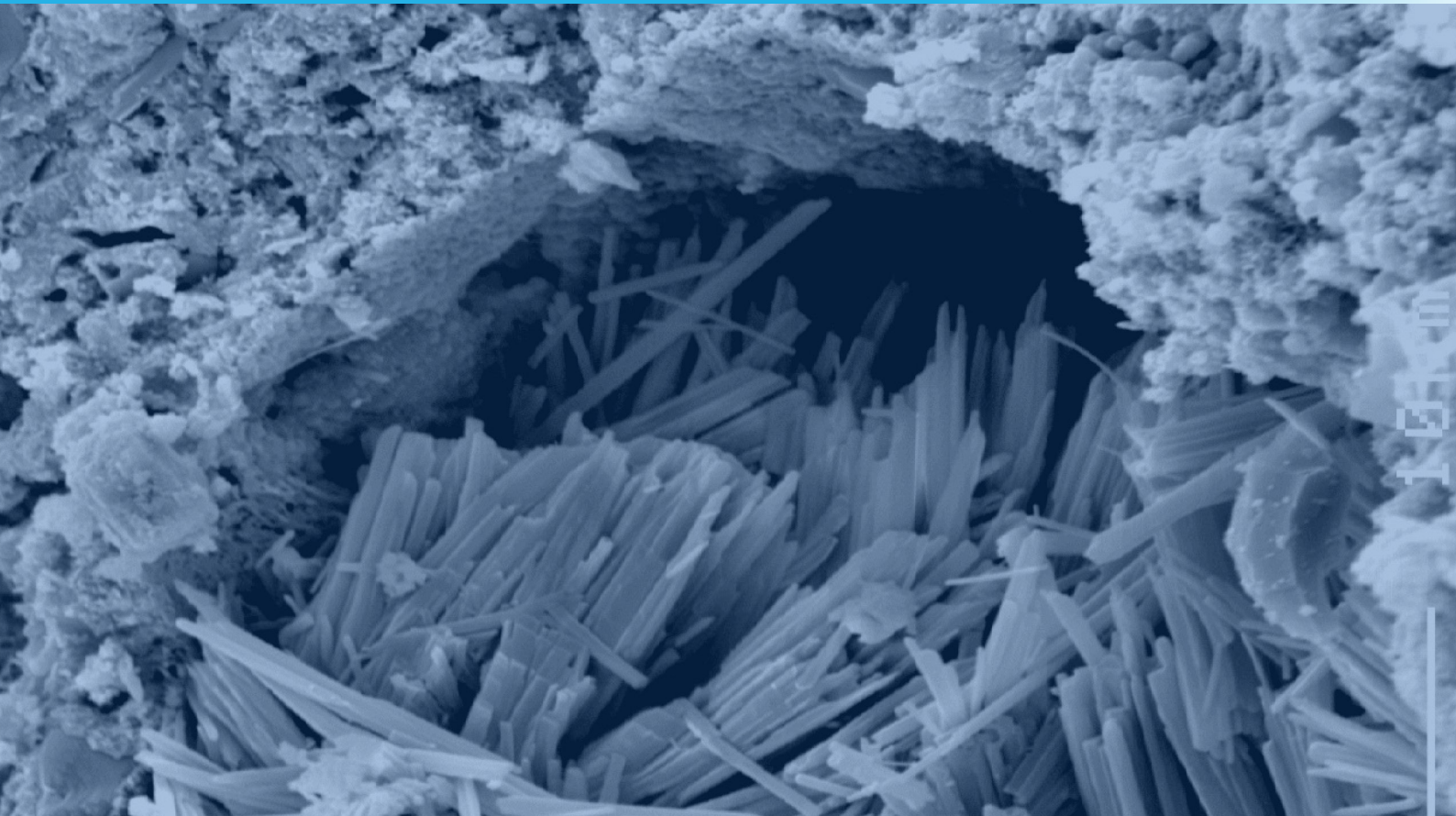




Sustainability In Concrete Structures

Xypex Crystalline Technology



XYPEX CRYSTALLINE TECHNOLOGY

Xypex primary and most distinguishing performance feature is its unique ability to generate a non-soluble crystalline formation deep within the interconnected and capillary pores of the concrete which permanently seals the concrete against the diffusion and penetration of water and other harmful substances into the concrete. Xypex crystalline products are dry powder compounds composed of Portland cement, silica sand and many active proprietary chemicals.

Xypex products chemically react with the moisture and Portland cement hydration products resulting in the generation of a crystalline structure, which permanently plugs the interconnected pores and capillary tracks of the concrete. In this condition, the pores become discontinuous and consequently the permeability of the concrete decreases significantly. Xypex's Crystalline Technology provides solutions to structures in the form of Admixtures, Coating, and Repair materials. Xypex Coating and Repair systems provide a unique solution that assists in the rehabilitation of Civil and Commercial Infrastructure.

The Xypex crystalline technology is substantially different from other methods, such as membranes and epoxy coating because:

- Xypex creates a crystalline structure deep within the pores and capillary tracks of the concrete mass to prevent the penetration of water and aggressive chemicals;
- Permanently blocks the concrete pores and capillary's and produces watertight concrete;
- Becomes an integral part of the concrete;
- Can seal and heal the cracks up to 0.4 mm of width;
- Is not subject to the delamination and deterioration problems encountered by membranes and epoxies;
- Is resistant to extreme hydrostatic pressure;
- Is resistant to different chemical attacks with pH value range between 3 and 11;
- Improves the durability of concrete which consequently, Extends the Service Life of the structure;
- Reduces future maintenance and repair costs considerably; and
- Is an environment friendly product

XYPEX CREDENTIALS

Through the use of our unique Crystalline Technology, Xypex Australia is committed to enhance the Durability of Concrete Structures and work with Industry in designing more sustainable Concrete Infrastructure. Our commitment to this is providing Performance-Based Solutions that meet and in fact exceed the performance criteria, resulting in Extending the Service Life of Concrete Infrastructure. Our consumer loyalty has been built on the foundation of honest and ethical Business Value.

Our commitment to continue testing and research in a very transparent way, is highlighted by more than 150 independent test reports, with proven performance of the use of Xypex Modified Concrete exposed to Severe environmental conditions, both in the Laboratory and On-Site conditions.



Xypex Crystalline Technology Extends the Service Life of Commercial and Civil Infrastructure by Creating Durability and Sustainability in Concrete Structures