

COLETANCHE®



Mining

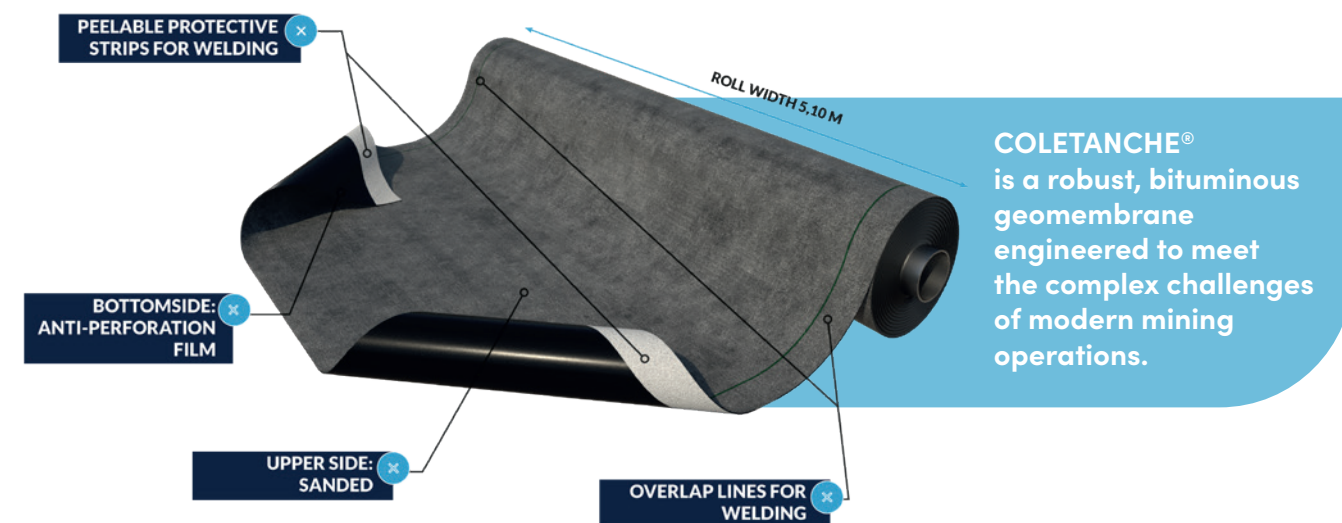
COLETANCHE FOR MINING APPLICATIONS

Manufactured in France, by IKO-AXTER, with a specially formulated SBS modified bitumen, COLETANCHE® delivers high flexibility, good chemical compatibility, and great resistance to punctures and environmental aging. It has been widely used in the mining industry, from gold, silver, and copper to lithium and potash extraction.

From extreme weather environments to harsh chemical conditions, COLETANCHE® offers dependable containment solutions for every stage of the mining process. With proven performance in over 40 countries, it ensures safety, longevity, and regulatory compliance across a wide spectrum of mining applications.

KEY FEATURES FOR MINING

- ▶ Can be installed at sub-zero or high temperatures
- ▶ Heavy machinery can operate on the membrane once properly covered
- ▶ Resists acids and alkalis (pH 2 - 10)
- ▶ Excellent friction angle (>34°) allows for secure use on slopes
- ▶ Bituminous flexibility ensures a flat finish with no stress cracking risk
- ▶ Fast, reliable patching and welding using basic field equipment
- ▶ Designed to perform for decades with minimal maintenance
- ▶ Easy maintenance post installation



ADVANTAGES IN ALL CONDITIONS



RESISTANCE TO AGGRESSIVE ENVIRONMENTS
Even without adding an anti-puncture geotextile



COMPATIBLE WITH VARIOUS SUBGRADES AND COVERING MATERIALS
Hot-mix asphalt, concrete, stone, gravel



EXCELLENT RESISTANCE TO AGEING
Resistance to UV, weathering, biological agents and oxidation



SUITABLE EVEN FOR EXTREME WEATHER CONDITIONS
Rain, wind, cold to -40°C



REMARKABLE DIMENSIONAL STABILITY AND FLEXIBILITY
Providing intimate contact with the supporting ground





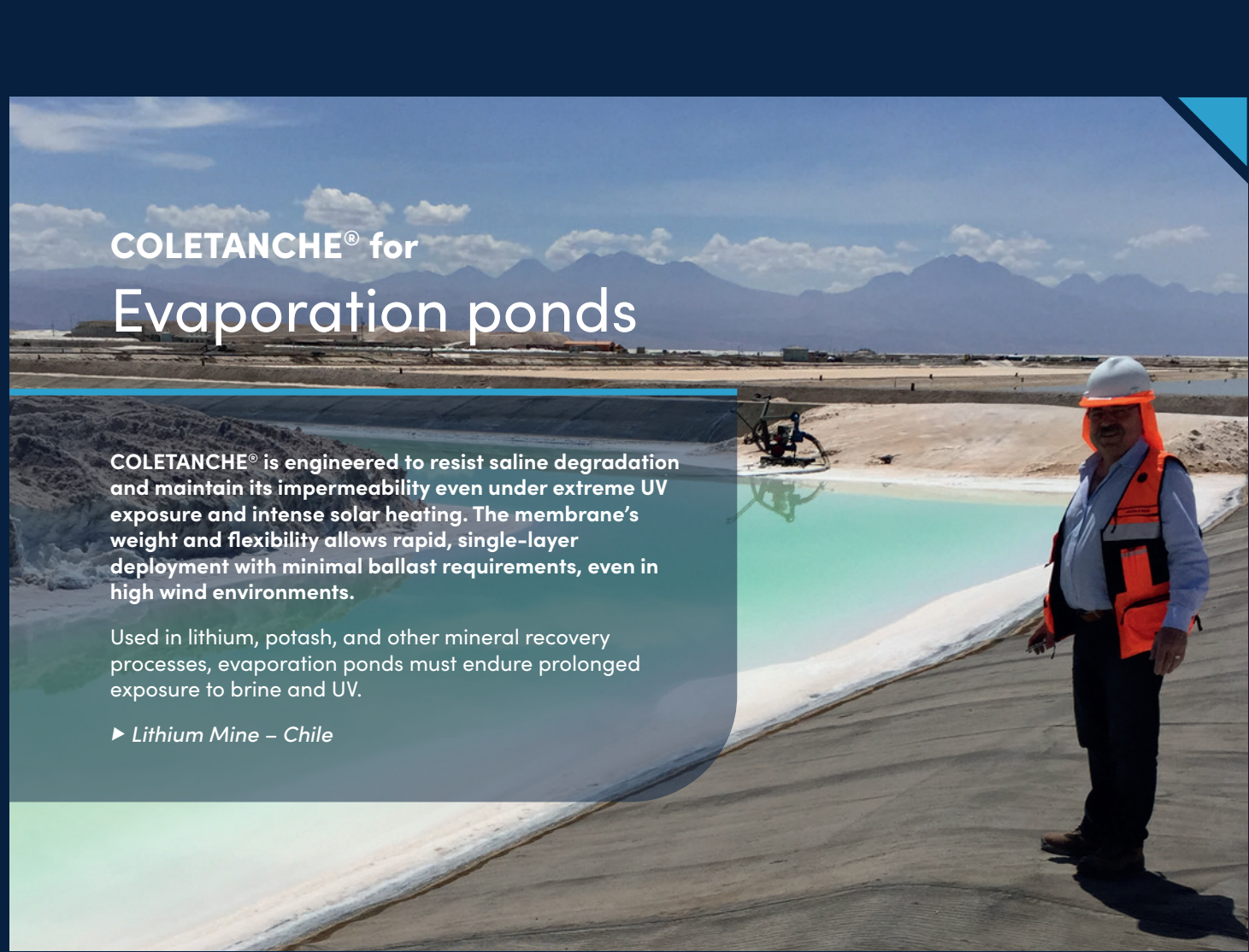
COLETANCHE® for Heap Leach Pads

COLETANCHE® provides a robust, chemically resistant barrier designed to safely contain aggressive leach solutions while allowing efficient drainage.

Used extensively in gold, copper, and silver mining, heap leaching relies on acid or cyanide solutions to extract metals from low-grade ore piles.

Its flexibility accommodates settlement beneath gravel loads without cracking, and its traction surface allows trucks and equipment to operate directly on it.

► Gold and Silver Mine – Mexico



COLETANCHE® for Evaporation ponds

COLETANCHE® is engineered to resist saline degradation and maintain its impermeability even under extreme UV exposure and intense solar heating. The membrane's weight and flexibility allows rapid, single-layer deployment with minimal ballast requirements, even in high wind environments.

Used in lithium, potash, and other mineral recovery processes, evaporation ponds must endure prolonged exposure to brine and UV.

► Lithium Mine – Chile



COLETANCHE® for Tailing Storage Facility (TSF)

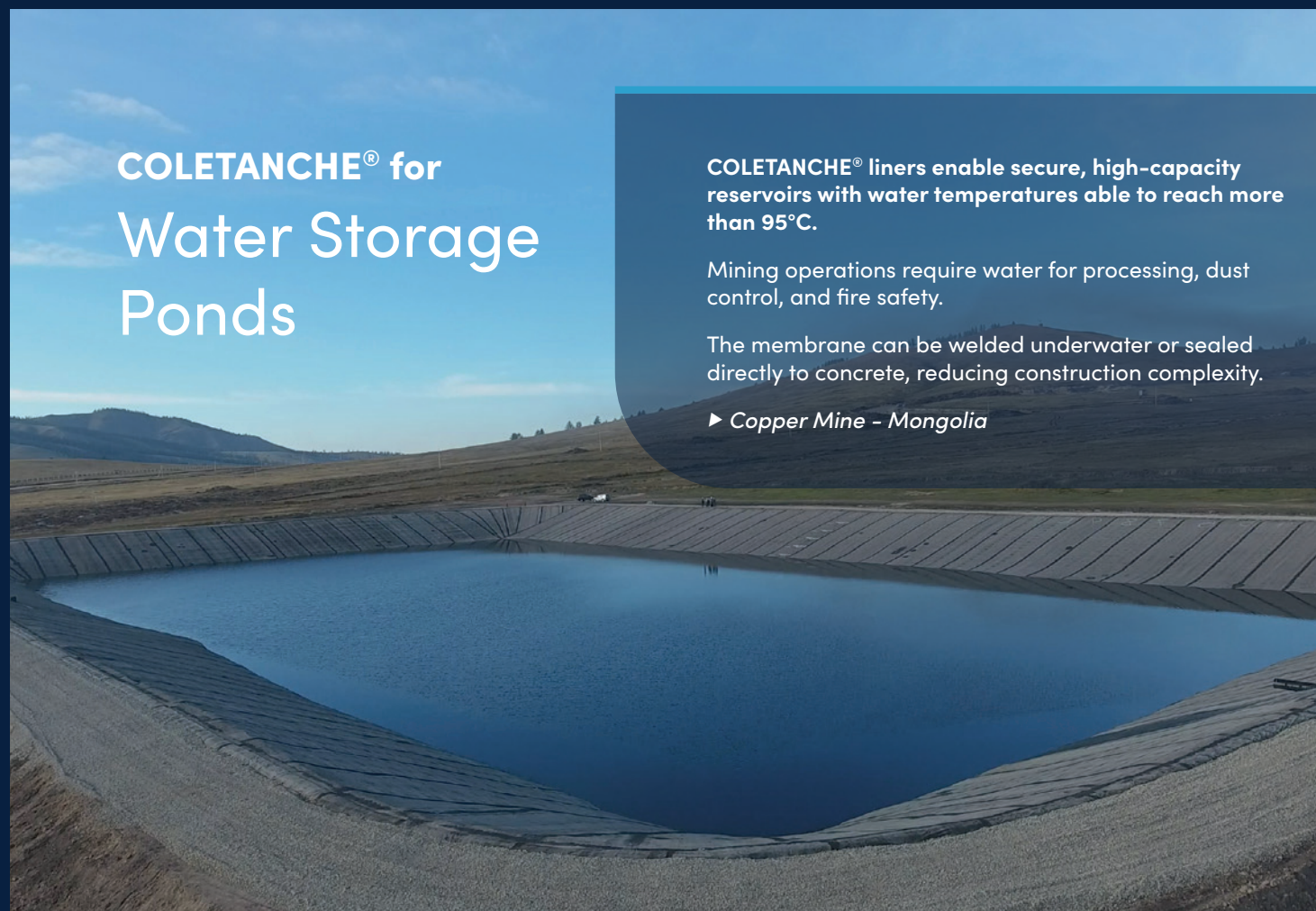
COLETANCHE® is widely used in upstream, downstream, and centerline TSF designs, thanks to its robustness and ability to integrate with granular filters and toe drains.

Its single layer construction allows faster installation, supports steeper slopes with reduced earthworks, and increases pond capacity.

Tailings from sulfide ore processing are typically fine, acidic, and potentially environmentally hazardous.

It is particularly effective in high-seismic or freeze-thaw environments where other membranes are prone to cracking or detachment.

► Gold Mine – Australia



COLETANCHE® for Water Storage Ponds

COLETANCHE® liners enable secure, high-capacity reservoirs with water temperatures able to reach more than 95°C.

Mining operations require water for processing, dust control, and fire safety.

The membrane can be welded underwater or sealed directly to concrete, reducing construction complexity.

► Copper Mine – Mongolia



COLETANCHE® for Waste Capping

COLETANCHE® is ideal for exposed and covered capping systems, ensuring long-term environmental security. It bonds well with mineral cover soils and can be installed with minimal surface preparation.

Mine closures and waste repositories must be sealed to prevent water infiltration, gas emissions, and erosion.

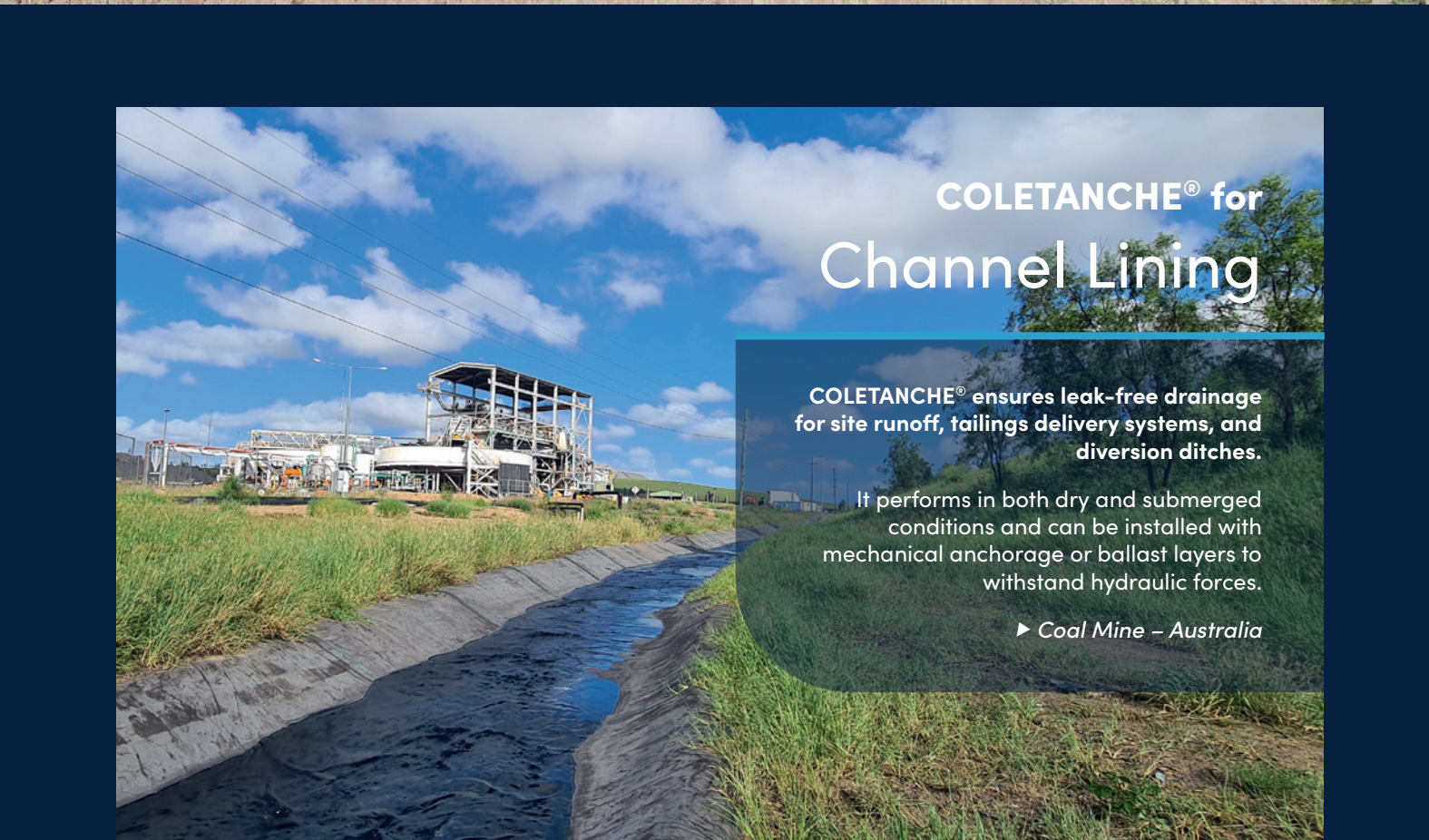
► Copper Mine – Australia

TECHNICAL SUPPORT AND EXPERTISE



Our global network of engineers and installation advisors ensures every project is backed by technical excellence. We assist with product selection, system design, on-site installation

support, and post-installation inspection. Whether you need a liner for a remote lithium project or technical validation for a TSF in freezing conditions, our team is ready to support your objectives.



COLETANCHE® for Channel Lining

COLETANCHE® ensures leak-free drainage for site runoff, tailings delivery systems, and diversion ditches.

It performs in both dry and submerged conditions and can be installed with mechanical anchorage or ballast layers to withstand hydraulic forces.

► Coal Mine – Australia

YOUR FUTURE PROJECT WITH COLETANCHE

COLETANCHE®: GUARANTEED QUALITY

We implement a quality assurance system to the manufacturing and installation of our geomembranes, guaranteeing maximal quality. Welds can be inspected by a wide range of quality assurance tests.

Want more technical information?

Scan the QR code to access:



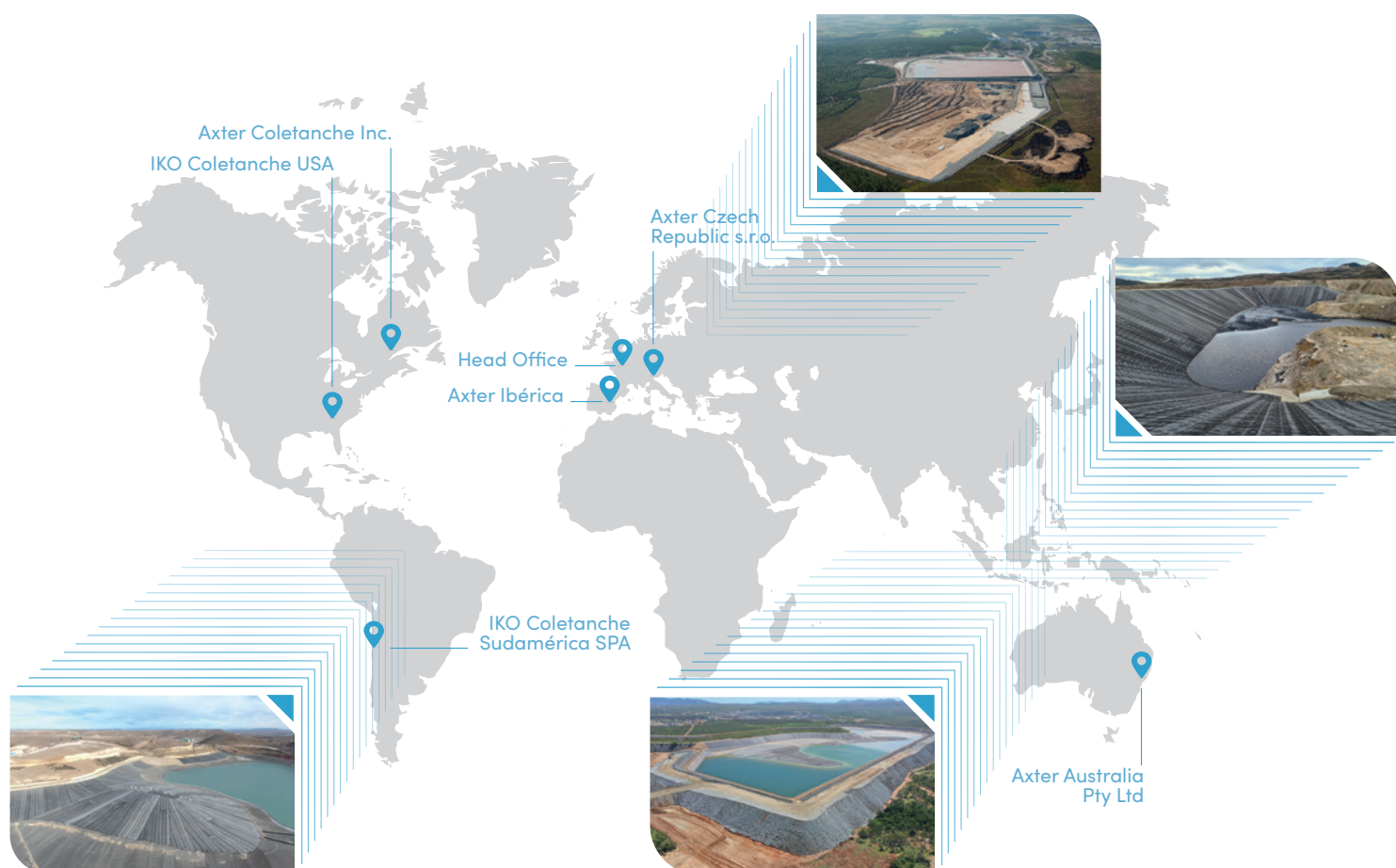
TECHNICAL VALIDATION

These waterproofing systems are implemented in compliance with local regulations and reference systems. For example: CETU technical approval and ASQUAL certification in France. Additional internal specifications can also be implemented. Please contact your local representative for more details.



HOW TO REACH US FOR MORE INFORMATION

COLETANCHE AROUND THE WORLD



IKO-AXTER

6 rue Laferrière
75009 Paris
France
Tel. + 33 32 793 1020
info@coletanche.com
info@axter.eu

AXTER COLETANCHE INC.

3550 Côte-des-Neiges #650
Montréal, QC H3H 1V4
Canada
Tel. + 1 (514) 903-1912
info@axtercoletanche.com

AXTER IBÉRICA

#180 P.I. Ca N'Il·la
Avda. Jacint Verdaguer, 26
08530 La Garriga (Barcelona)
España
Tel. + 34 93 871 7333
info@axter.es

AXTER AUSTRALIA

#1302, 50 Cavill Avenue
4217 Gold Coast
Australia
Tel. +61 (7) 56 35 44 89
info@axter.com.au

IKO COLETANCHE SUDAMERICA

La Concepción, 65, #904
Providencia
7500010 Santiago de Chile,
Chile
Tel. + (56-22) 236 99 39
info@axter.es

IKO COLETANCHE USA

531 Roselane ST, NW Suite 400
Marietta, GA 30060
USA
Tel. +1 (470) 599-6766
info@coletanche.com

AXTER CZ. REPUBLIC

Eliášova 20 -
160 00 Praha 6
Czech Republic
Tel. + 420 222 951 195
info@axter.info

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