DS BRABUX SYSTEM

MDRYKOS



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ABOUT US

Drykos is a leader in the **production of crystalline** waterproofing agents and in the supply and application of systems that waterproof and extend the lifespan of concrete structures.

We collaborate as partners with developers, design firms and national and international construction companies to improve the quality and longevity of civil and public engineering projects.

MISSION

We design and create eco-sustainable products and systems to waterproof, protect, and extend the life of concrete structures.

10

YEARS OF EXPERIENCE

15 MLN

SQUARE METERS OF WATERPROOFED SURFACES

OPEN CLAIMS

OPERATIONAL

4

CONTINENTS

EXPERIENCE AND SERVICES

With over 10 years of expertise in waterproofing solutions and technologies, we provide customized solutions and support in the application of our products and systems.

100%
RECYCLABLE SYSTEMS

65%

REDUCTION OF ECOLOGICAL FOOTPRINT



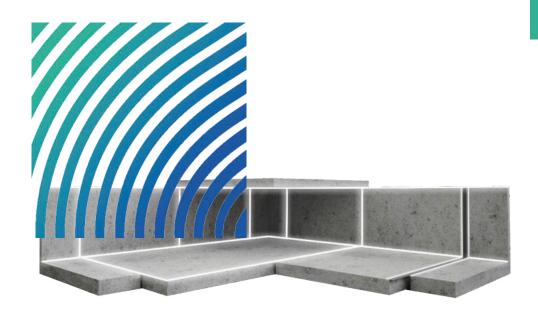
OUR PRESENCE

Numerous projects worldwide (Europe, Gulf countries, West Africa, Brazil, Turkey) have benefited from DRYBOXSYSTEM™ and of our innovative liquid crystalline technology.





DS DRYBOX System



DRYBOX SYSTEM™ by DRYKOS is an integrated active waterproofing system with guaranteed protection specifically designed to extend the life of concrete structures, making them safe for people and the environment.

It involves:

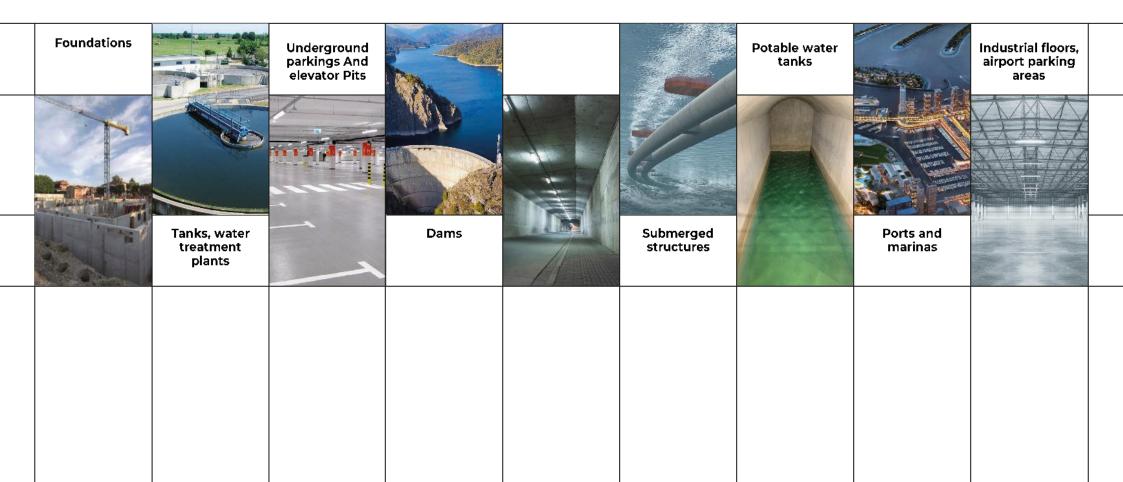
Using concrete DRYMIX ULTRA admixture, which, thanks to our innovative crystallization technology, keeps it consistently waterproof and protected over time.

Ensuring the waterproofing of all joints to ensure proper hydraulic protection of the structure.



APPLICATION AREAS

DRYBOXSYSTEM™ is used to waterproof concrete structures exposed to potential/continuous water contact or to chemical attacks that require permanent waterproofing and protection, **even under conditions of high hydrostatic pressure.**





STRENGTHS



ADAPTS TO DESIGN

Does not require changes to the structural design.



IT'S GUARANTEED AND CERTIFIED

Covered by a ten-year warranty and ISO-9001 certified..



EXPERIENCE AND SUPPORT BY YOUR SIDE

Drykos follows the waterproofing process from A to Z, from the design phase to technical instruction and support during system installation.



REDUCES MAINTENANCE INTERVENTIONS AND THUS COSTS

Reduces maintenance and related costs up to 50%



IT'S DURABLE AND SUSTAINABLE

Extends the useful life of concrete structures, protecting them from chemical aggressions.



IT'S ECO-FRIENDLY

Its components do not contain VOCs and are recyclable at the end of the structure's life cycle, unlike other systems such as bituminous membranes and PVC sheets.

DRYBOXSYSTEM™ contributes to achieve **LEED** points



CERTIFIED FOR CONTACT WITH POTABLE WATER



PROTECTION
AGAINST CHEMICAL
ATTACKS



IT'S SMART

Thanks to our app, our Customer can track all stages of waterproofing work and will have the documentation of all the job.



SYSTEM PHASES

01

02

03

04

05

DETAILED TAILORED DESIGN ADDING DRYMIX ULTRA TO CONCRETE MIX

CONSTRUCTION JOINTS WATERPROOFING

INSTRUCTION AND TECHNICAL SUPPORT DURING APPLICATION

TEN-YEAR WARRANTY



PHASE 1: DETAILED AND TAILORED DESIGN

Our team understands the individual needs and requirements of each project and works alongside developers, architects, engineers and builders to ensure a complete waterproofing of the structure to be built. We fully understand the importance of accurately detailing the project's waterproofing and also provide the necessary support to Construction designers for bids. system details Notes and specifications Components breakdown R L'IMPERMEABILIZZAZIONE DEI TRUTTURA OR code access to technical documentation of Calculation of PLATEA DI FONDAZIONE 4.309,00 the system volumes and DRYBOX SYSTEM 6.870,00 surfaces m



PHASE 2:

ADDITION OF DRYMIX ULTRA TO CONCRETE MIX

The fundamental element of DRYBOXSYSTEM™ is DRYMIX ULTRA, our water-based crystalline waterproofing admixture. DRYMIX ULTRA is added to the concrete mix in the batching plant using normal additive dispensers, thus it integrates in the plant's automated cycle. The exact quantity of product used will be indicated in the end cycle report.

PROBLEM

One of the inherent and natural characteristics of concrete is the formation of porosity and capillary discontinuities in the mass during the hydration phase.

Pores and capillaries make concrete permeable, allowing water to pass through, carrying inside external aggressive chemicals responsible for its deterioration over time.

SOLUTION

DRYKOS' research into concrete crystallisation technology led to the development of DRYMIX ULTRA, a water-based liquid additive that, when added to the concrete mix, **completely waterproofs its mass.**

The active ingredients in DRYMIX ULTRA react with the free lime, silicates, and aluminates present in the concrete pores, forming inside them an insoluble crystalline needle-like complex that stops the penetration of water, thus waterproofing the entire mass.

The chemical components **remain active over time** and can **reactivate in presence of moisture or water,** sealing micro-cracks up to 0.4 mm.





HOW DOES CRYSTALLINE TECHNOLOGY WORK?

SELF HEALING PROTECTION:

The crystalline technology protects concrete from chemical attacks, from seawater and wastewater. Concrete treated with DRYMIX ULTRA is also certified for structures containing potable water.



MOISTURE ENTERS
THROUGH
CAPILLARIES
AND CRACKS



CONTACT WITH WATER STARTS THE CRYSTALLIZATION PROCESS



CRYSTALLIZATION
CONTINUES UNTIL CRACKS
AND CAPILLARIES ARE
COMPLETELY SEALED



PERMANENTLY
WATERPROOFED









BENEFITS OF CRYSTALLINE TECHNOLOGY



WATERPROOFS

the concrete mass and seals its pores and capillaries, preventing the penetration of external chemical agents (CO2, chlorides, sulfates) that cause reinforcement corrosion.



IT'S PERMANENT,

unlike membranes with limited lifespans.



IT'S SELF-SEALING,

for cracks up to 0.4 mm. even if they develop over time.



AVOIDS DELAYS IN THE CONSTRUCTION SCHEDULE

concrete is already waterproofed as soon as it's casted, no need to wait for its maturation as for other waterproofing systems.



IT'S COST-EFFECTIVE

is less expensive than other waterproofing systems.

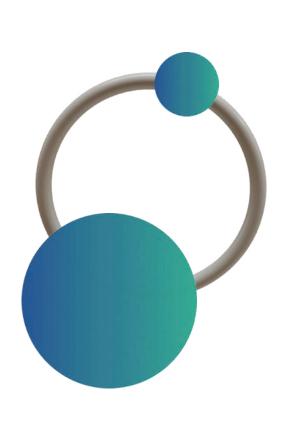


IT'S ECO-FRIENDLY

uses the inherent chemistry of concrete and does not harm the environment.



PHASE 3: WATERPROOFING OF JOINTS



CASTING
RESUMPTION JOINT
BETWEEN TWO RAFT
SLABS

PART SLAB AND WALLS

CASTING RESUMPTION JOINT BETWEEN WALLS

PROGRAMMED CRACKING JOINT IN WALLS

CASTING RESUMPTION
JOINT BETWEEN WALLS
AND SLAB

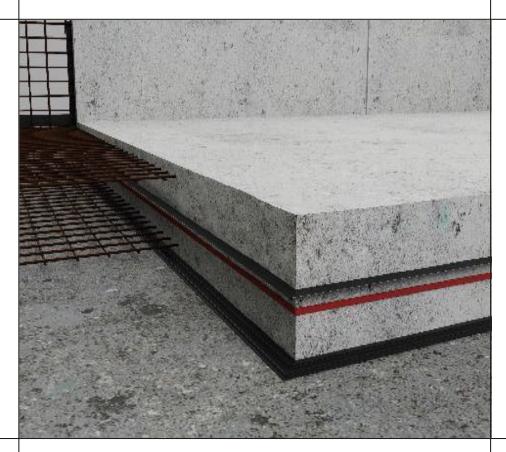
EXPANSION JOINT

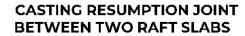
FORMWORK SPACERS WATERPROOFING

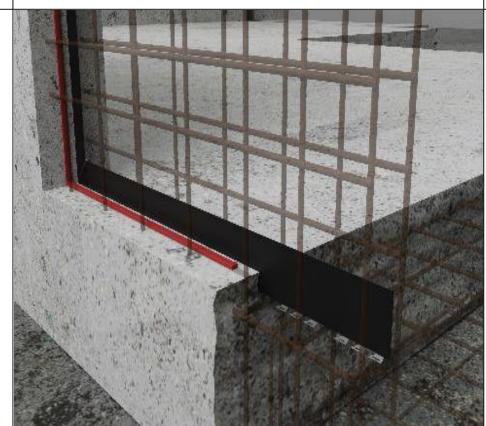
PASSING PIPES
WATERPROOFING







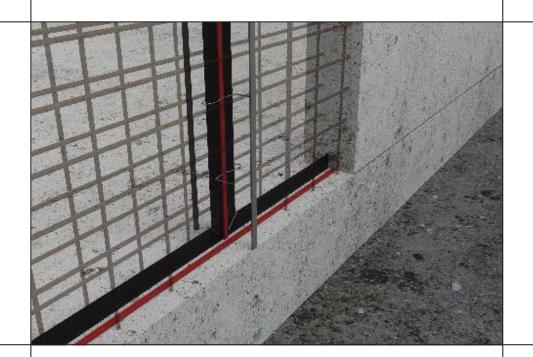




JOINT BETWEEN RAFT SLAB AND WALLS

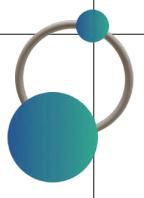






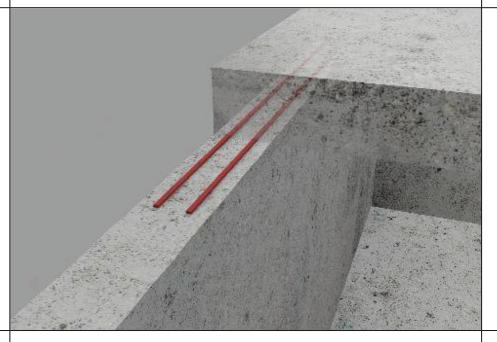
CASTING RESUMPTION JOINT BETWEEN WALLS

PROGRAMMED CRACKING JOINT IN WALLS











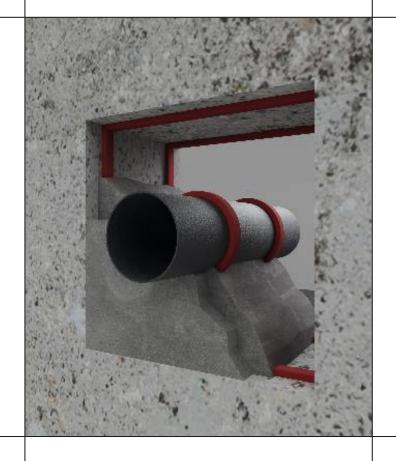


EXPANSION JOINT

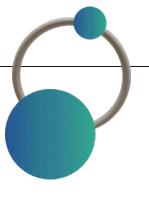




FORMWORK SPACERS WATERPROOFING



PASSING PIPES WATERPROOFING





PHASE 4: INSTRUCTION AND TECHNICAL SUPPORT DURING APPLICATION

The DRYBOXSYSTEM™ team of experts supports designers, project managers and construction companies in the application of DRYBOXSYSTEM from the design to the completion of the structure, providing:

Support during the design phase

Analysis of concrete mixes incorporating DRYMIX ULTRA

Pre-qualifications to optimize mix design

Verification of correct dosage of DRYMIX ULTRA at the batching plant

Training and support for personnel involved in system installation

Random sampling to verify permeability parameters of the concrete during construction phases



DRYKOS TECHNICAL SUPPORT

Constant on-site support during the installation of the components of DRYBOXSYSTEM.

SMART

Web app that traces all phases of application, with site reports and pictures.

Designers and Project Managers can follow the stages of system application in real time.



PHASE 5:

TEN-YEAR WARRANTY (not available in all countries)







A ten-year waterproofing warranty by a leading insurance company can be issued when DRYBOXSYSTEM $^{\text{TM}}$ has been correctly applied and certified under the supervision of DRYKOS technicians.





CERTIFICATIONS















CONCERN FOR THE ENVIRONMENT AND SUSTAINABILITY



At DRYKOS respect for the environment is an essential part of doing business.

Our Research & Development department designs and develops only products with minimal or no environmental impact.

In addition, DRYKOS solutions **increase the durability** of concrete constructions: by reducing maintenance and repair work, we reduce the environmental impact of constructions.

Data from ICRI Committee 160 report that the most effective sustainability strategy for concrete structures **is to avoid the need for repairs.** DRYKOS products and systems, by eliminating high-emission coatings and membranes, by extending the service life of concrete, avoiding costly repairs and using non-toxic products **contribute to more sustainable construction projects.**

LEED

Our waterproofing system can increase LEED points for projects

ZERO VOC

DRYKOS range of crystalline products, free of VOC, guarantees the health and safety of both people and applicators.

RECYCLABLE

Cooncrete admixed with DRYMIX ULTRA and almost all of our waterproofing accessories can be recycled, unlike other systems based on petroleum derivatives or polymers.

LESS CO2

The use of crystalline technology, that waterproofs concrete and makes it self-healing, can reduce the carbon footprint of a structure by 65% or more, significantly extending its useful life. The use of a permanent waterproofing solution such as DRYBOXSYSTEM reduces the need for maintenance and drastically decreases the carbon footprint.

REACH COMPLIANT

Our system components contain no toxic or carcinogenic substances.



WE WORK WITH





































NUOVO POLICLINICO

MILANO, ITALY

Project implemented in collaboration with the SIS conrsotium





MILANO BICOCCA,

REFERENCES



NEW UNIVERSITY RESIDENCE, BUILDING U 10

Project implemented in collaboration with CMC - Consorzio Integra



ITALY

Customer

S.A.C. construction contracting company

Developer

CMC - CONSORZIO INTEGRA





BOLOGNA BUSINESS SCHOOL

Project implemented in collaboration with Mario Cucinella's architecture studio

BOLOGNA, ITALY

MC A







VIALE MONTELLO 6
VIA JENNER CENTRO TOG
VIA ARRIVABENE
VIA CEFALONIA 18

MILANO, ITALY

Project implemented in collaboration with Borio Mangiarotti S.p.a.











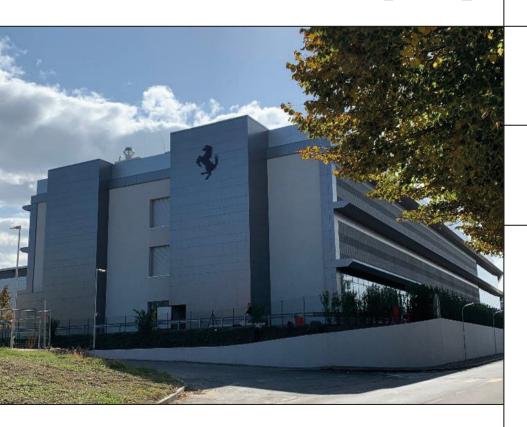
METRO STATION REBAUDENGO

TORINO, ITALY

Project implemented in collaboration with Cervit Società Consortile A R.I.







FERRARI S.P.A.

MARANELLO, ITALY

Project implemented in collaboration with Ing. Ferrari S.p.a.











MILANO, ITALY

Project implemented in collaboration with SMV COSTRUZIONI SRL











HIPPODRHOME

MILANO, ITALY

Project implemented in collaboration with Facchetti Costruzioni S.p.a.







GYM AND HIGH SCHOOL DI SIGONIO

MODENA, ITALY

Project implemented in collaboration with Impresa CMB







WINTER WONDERLAND AL MAHA ISLAND

QATAR

Project implemented in collaboration with Gulf Consulting Group



Customer

QATARI DIER, ELEGANCIA GROUP

Designer

GULF CONSULTING GROUP

Developer

URBACON CONTRACTING COMPANY





THE PEARL RESIDENTIAL TOWERS

QATAR

Project implemented in collaboration with HTCO

HTCO

Customer

SHEIKH MOHAMED ABDUL RAHMAN HAMAD ALTHANI

Design

HTCO

Developer

SALTOS TRADING & CONTRACTING



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SKALA TOWER HOTEL & RESIDENTIAL

QATAR

Project implemented in collaboration with Sigma Contracting & Trading

≨IGMA

Customer

ARIANI



Design

AL FEREEJ CONSULTANCY

Developer

SIGMA CONTRACTING & TRADING





KATIP CELEBI UNIVERSITY IZMIR

Project implemented in collaboration with



TURKEY





ISTANBUL RESIDENCE BUILDING TURKEY





ÇAMSAN PARK AVYM TURKEY

Project implemented in collaboration with Camsan Gayrimenkul







CONCESIO PURIFICATION PLANT

BRESCIA, ITALY

Project implemented in collaboration with Azienda Servizi Valtrompia







PURIFICATION PLANT PAVIA ACQUE

PAVIA, ITALY

Project implemented in collaboration with Pavia Acque

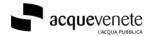






MONTAGNANA STORAGE TANKS PADOVA, ITALY

Project implemented in collaboration with Acque Venete







WATER DRIVING SYSTEM STORAGE TANK MESTRE, ITALY

Project implemented in collaboration with Acque Venete







CASALABATE PURIFICATION PLANT

LECCE, ITALY

Project implemented in collaboration with AQP - Acquedotto Pugliese







RIVER CONTAINMENT TANK SCAMA STRADE

MILANO, ITALY

Project implemented in collaboration with CAP Holding







PURIFICATION PLANT

ANDRIA, ITALY

Project implemented in collaboration with AQP -Acquedotto Pugliese







WATER TRANSFER TANKS IN MELENN

TURKEY

Project implemented in collaboration with Kalyon Construction







SAN MAURIZIO
CANAVESE
PURIFICATION PLANT

TORINO, ITALY

Project implemented in collaboration with Smat Torino





DRYKOS srl

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