

CRACK REPAIR

Redefining Concrete Restoration



ABOUT US

Drykos is a pioneer in developing crystallizing waterproofing solutions and offering complete systems to enhance the durability of concrete structures. We collaborate with public and civil infrastructure organizations, engineering and architecture firms, as well as domestic and international construction **companies to enhance the durability and quality of civil engineering projects.**

OUR MISSION

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

EXPERIENCE AND EXPERTISE

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.

GLOBAL REACH

Diverse global projects spanning Europe, Gulf countries, West Africa, Brazil, and Turkey have reaped the rewards of our revolutionary liquid crystalline technology.

10

YEARS OF
EXPERIENCE

0

OPEN
CLAIMS

15 MLN

SQUARE METERS OF
WATERPROOFED SURFACES

65%

REDUCTION IN ECOLOGICAL
FOOTPRINT

OPERATIONAL ON

4

CONTINENTS

CRACK REPAIR SYSTEM

Drykos introduces the Crack Repair system, a **comprehensive solution for the permanent repair of cracks and honeycombs in concrete structures.**

The system consists in a tested treatment with crystallizing products from the Drykos Repair line, which can be complemented with hydro-expansive resins for substantial water leakage situations.



SYSTEM ADVANTAGES



EFFECTIVE IN NEGATIVE
HYDROSTATIC PRESSURE



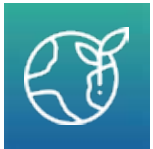
FAST INTERVENTION WITHOUT
SERVICE INTERRUPTION



SUITABLE FOR CONTACT
WITH POTABLE WATER



ENVIRONMENTAL
FRIENDLY



DURABLE



TECHNICAL KNOW-HOW
AND SUPPORT

THE CRACK REPAIR SYSTEM:

Unleashing the Power of Crystallization

The Crack Repair system utilizes Drykos' crystalline technology to permanently repair cracks and honeycombs in concrete structures, under positive and negative hydrostatic pressure.

DRYKOS REPAIR LINE:
waterproofing crystalline
mortars and plasters



DRYPLUG

Quick-setting
crystallizing one-
component
cementitious mortar
to immediately
stop water leaks in
concrete structures.



DRYMORTAR

One-component,
fiber-reinforced
crystalline
cementitious
mortar for concrete
restoration.



DRYKOTE ULTRA

Crystalline slurry coating
to waterproof and protect
concrete against chemical
aggressions.

SYSTEM PHASES

01

SUPPORT PREPARATION

Cleaning the damaged / water leaking area thoroughly (the surface must allow a homogeneous absorption of the products).

Use a grinder to create two parallel cuts alongside the crack, maintaining a distance of approximately 1-1.5 cm from the crack's edge. Ensure the cuts have a width of 2.5-3 cm and extend them along the entire length of the crack. Add an extra 50 cm on each side.

With a chisel, form a groove using the cuts previously made and reaching a depth of about 4 cm. Make the groove with a U groove or rectangular shape or dovetail and NOT in the form of 'V'.

With a brush or compressed air remove the dust made with the previous intervention.



02

WATER LEAKAGE STOP

Mix the product DRYPLUG, the quick-setting crystalline repair mortar in the consistency of a thick putty (4 parts powder and 1 part water in volume) and proceed making a dough by hand, until it forms a ball, make sure to prepare the material for mixing, that you can apply in a maximum timespan of 1 minute.

When the ball starts to heat, using waterproof gloves, press it into the groove with force until it hardens. Repeat for each step along the groove length starting from the top to the base.



03

U GROOVE FILLING

Mix the product DRYMORTAR in thick mortar consistency (4 parts powder and 1 part water in volume) ensure to preparing the material for mixing that you can apply in a maximum timespan of 10 minutes. With the help of a trowel, completely fill the U groove, ensuring it is level with the wall surface.



04

FINISHING COAT

Mix the product DRYKOTE ULTRA in the consistency of slurry (5 parts powder and 2 parts water by volume) make sure to prepare the material for mixing you can apply in a maximum time of 20 minutes.

With the help of a brush, thoroughly saturate the affected area with water, specifically the length of the repaired slot plus 50 cm for part of the repair itself (both in width and length). This water saturation is necessary to allow the penetration of the crystallizing matrix into the concrete.

Once the previously wet surface becomes dry to the touch but remains moist, apply DRYKOTE ULTRA with a large brush. Be sure to extend the application 50 cm beyond the repair on both sides.



RESIN INJECTION

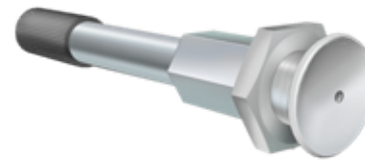
If needed, in cases of significant water leakage, use hydro-expansive resin injection DRYNJECT and its accessories can be employed for intervention.

HYDROEXPANSIVE RESIN AND ACCESSORIES



DRYNJECT

Hydro-expansive, elastic polyurethane resin to be injected under pressure with a special pump.



INJECT PACKER

Injector for hydro-expansive polyurethane resin injections.



INJECT PACKER CONNECTOR

Special high-pressure connector to connect the packer to the injection pump tube.

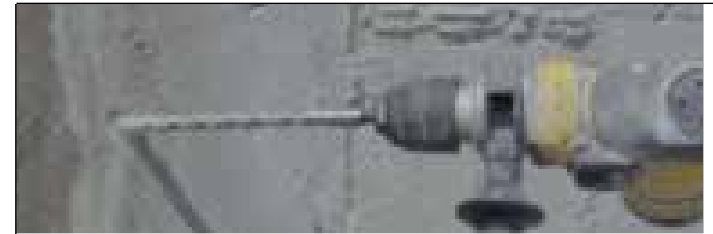
SEALING PHASES WITH HYDRO-EXPANSIVE RESIN

01

Execution of 45° inclined drillings with respect to the working face (cracks or joints to be repaired), by intercepting the crack at depth. The drillings must be performed alternately and at a distance of 20 cm from each other along the entire length of the crack or joint. To clean the holes, blow compressed air or water.

02

Insertion of specific INJECT PACKER injectors in the drillings, sealing them tightly with a socket wrench.



03

Mix component A of the hydro-expansive polyurethane resin DRYNJECT with the predetermined quantity of component B and proceed with the injections into the injectors. Continue the injection until resin exudes near the next injector.

04

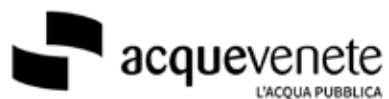
Once the resin injection operation is completed, remove the previously used injectors, and clean the surface from any resin leaks and excess.

05

Proceed to seal all holes with the crystallizing mortar DRYPLUG.



WE WORK WITH





CRACK REPAIR

Contact Us to Transform Your Concrete Structures

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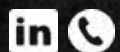
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