



Efficient, economical and environmentally friendly biotechnological solutions to treat water and wastewater sludge polluted by organic contaminants.

OUR PRODUCTS :

BIOCOL

Sewer cleaning

Reduces maintenance and cleaning costs of sewers and grinder pumps by reducing siltation, grease and odors.

BIOOVASE

Water body dredging

Bio-dredging through organic matter degradation in rivers, canals, lakes, lagoons and ports.

BIO

WWTP performance enhancer

Efficiency improvement and reduction of management costs through the optimisation of biological activity in aeration basins.

THE ENVIRONMENT

The purpose of IDRABEL's products is to reduce organic pollution through the enhancement of a natural process so that the remedy does not become an additional problem. We help the natural environment to recover its selfpurifying potential with the objective of improving residents' quality of life (odours elimination, wastewater remediation, sludge reduction). In the 3 fields of application of our products, (sewers, water bodies/ports, WWTPs) our ecological solutions are a real innovation in the environmental management and remediation market.

BIOFIXATION AND BIODEGRADATION

IDRABEL «bio-fixes» microorganisms (bacteria and mushrooms) on natural porous supports and adds enzymes and oligo-elements to **increase biodegradation efficiency**.



ABOUT THE COMPANY

Founded in 1996, IDRABEL is a biotechnology company that develops, produces, markets and implements a complete range of organic and natural products allowing an in-situ degradation of all industrial and domestic organic pollution in water and sludge. Our technology can be applied in sewerage systems, water bodies, lakes, ports and rivers but also in industrial, civil and private WWTPs.



OUR REFERENCES

A large number of public authorities and private companies have chosen our technology and products in Belgium, Netherlands, France, Italy and Vietnam.

CONTACT

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BIOFIXATION AND BIODEGRADATION PRINCIPLES

A **NATURAL MICROORGANISM** degrades organic pollution by producing exo-enzymes that fragment contaminants in the outside environment, it then digests them thanks to endo-enzymes and finally rejects CO2 and H2O.

Its flaws? Low biological activity, produces few exoenzymes, requires a lot of time for degradation and has a limited life-span.



A **BIO-AUGMENTED MICROORGANISM** has a very high activity thanks to an intensive production of exo-enzymes.

Its flaws? Its life-span is limited to 7-10 days and it gets easily carried away by the current.

BIOFIXATION enables to maintain an intense bacterial activity over a very long period of time. The microorganism, well anchored in its support, is protected by it against currents and contaminants. In addition, enzymes and trace elements inserted in the mineral support maximise the efficiency of bio-degradation. Idrabel products work in perfect harmony with nature.

Microorganisms are fixed inside a porous mineral support and are bioaugmented by the addition of enzymes and oligo-elements.

IDR BEL



Microorganisms.

Bio-fixation: Porous mineral support. Enzymes and oligo-elements.