

Remediator™

Harness the power of biotechnology to deliver the most effective and sustainable way to remediate and restore contaminated soil and groundwater.



35% of the world's pollution is soil contamination

Globally, there is a growing need to address the problem of soil and groundwater contamination resulting from oil and other hazardous spills without further adding to our environmental footprint.

The solution? Bioremediation

Bioremediation is the use of living micro-organisms to naturally remove contaminants on site, and it's the next generation of clean technology being pioneered by Enretech.

Revolutionising remediation with biotechnology

Bioremediation renders traditional "dig and dump" and incineration remediation methods all but obsolete. And now you can carry out highly effective bioremediation yourself, onsite, with minimal risks thanks to Enretech's Remediator bioremediation solution.

The first of its kind and with more than 40 successful soil remediation projects now completed, Remediator is a dual-purpose bio-active absorbent that can bioremediate oil spills or hydrocarbon contaminated soil. Developed and manufactured in Australia, using locally sourced and highly absorbent cotton-waste, Remediator is more sustainable, cost-efficient, and timely than traditional methods of soil decontamination.

Remediator is charged with oil-degrading, naturally occurring and supplementary micro-organisms that use hydrocarbons as a food source. Simply keep it moist, and the bacteria will propagate rapidly, breaking down the soil contaminant into its non-harmful constituents in only a few weeks. More than 95% of soil contaminants are then removed within 90 days.

Need something a little stronger? Additional nutrients can also be added to the solution to further enhance hydrocarbon bioremediation based on laboratory testing of soil samples.

“*It is cheaper and timelier to treat our contaminated soil using the Enretech Remediator product and treatment process within the site than carrying the dug soils outside.*”

– Tokyo Gas Manufacturing facility – Environmental Remediation Manager

Remediator – How does it work



90 days (approx)

Soil is contaminated with oil or chemicals.

Soil is treated with Remediator in-situ and the moisture levels are maintained during treatment period.

Rapid encapsulation via a carrier matrix eliminates leaching of hydrocarbons.

Mico-organisms break down contaminants to non-harmful constituents – with more than 95% of contaminants are removed within 90 days.

Features & benefits



All natural & eco-friendly

Made from renewable resources, Remediator combines repurposed cotton waste with both naturally occurring and cultured bacteria.



100% bio-degradable

No removal necessary. Remediator will naturally break down contaminants with no bi-product or waste.



Locally sourced & manufactured

Australian owned and manufactured, with components locally sourced.



Highly effective

Works quickly and has shown to decrease certain contamination concentrations by up to 99% in 100 days.



100% bacteria-based

Remediator uses micro-organisms to break down and remove oil-based contaminants from the affected area without relying on 'dig and dump' methods.



Globally utilised & recognised

Used across Australia, Japan, Asia, Europe, Africa and more, Remediator is approved and recommended by several global government and environmental regulatory authorities.

Approval & accreditations

Since Enretech was formed in 1995, Remediator has been successfully used in more than 40 bioremediation projects in countries including Tanzania, Kazakhstan, Vietnam, Micronesia, Australia, Japan and New Caledonia. Most involved the breakdown of soil contaminated with petroleum hydrocarbons resulting from mining, manufacturing or petroleum operations.

Enretech's Remediator solution has also been reviewed and accredited for EPA compliance by a variety of government and environmental bodies across Australia and internationally. These include the following:

- Canada (Ontario Ministry of the Environment)
- North Carolina (USA) – Department of Health and Natural Resources
- Vietnam - National Environmental Agency
- Philippines – Department of Transport and Communications
- Malaysia – Department of Environment
- Indonesia – Regional Development and Environmental Authority (Batam Island)
- Australia
 - Environmental Protection Authorities (EPA) in NSW, Victoria, Queensland, Western Australia, ACT, Tasmania and South Australia
 - State and local governments in NSW, Queensland and Victoria (including roads, transport and emergency services)

Applications & efficacy

Remediator is designed for use on contaminated soil up to a depth of 0.5 metres. It can be applied in-situ or ex-situ by blending the dry product with the contaminated soil as evenly as possible. The soil moisture should be maintained between 20-45% for optimum microbial activity and additional nutrients can be added to further enhance hydrocarbon bioremediation following soil testing/analysis. Remediator is dispersed by tilling and there is no requirement for washing and milling as with other bacterial applications.

Application of Remediator on contaminated sites:



Key industries supported

Remediator is an effective and efficient bioremediation option for industries that experience a high incidence of soil or groundwater contamination, including:



**Mining,
Oil & Gas**



**Construction &
Petroleum**



**Transport &
Infrastructure**



**Waste
Management**



**Environmental
Consultants**



Bioremediation product & service options

Remediator is only one of the bioremediation technologies and services offered by Enretech. For more complex bioremediation cases or large scale bioremediation projects, Enretech's bioremediation services company Novorem can provide specialised soil testing and analysis, culture growth, and additional bioremediation nutrients as needed. These can then be used by clients to address their specific soil contaminants in the most timely and cost-effective manner.

About The Enretech Group

Combining over two decades of manufacturing and industrial experience with leading-edge bioremediation technology, has seen the evolution of the Enretech Group. For over 25 years - decades ahead of the global movement towards sustainability - Enretech has pioneered the use of organic environmental protection solutions and soil remediation technologies to effectively combat oil, chemical and other hazardous spills on hard surfaces, in soil and in groundwater. Our range of industrial absorbents and soil remediation solutions have been recognised globally as market leaders. They are not only effective but also designed and manufactured in Australia from recycled cotton-waste.

A firm commitment to the Environment and a cleaner future remains core to the Enretech Group ethos and we will continue to deliver Sustainability Without Compromise for all our distribution partners, customers and users of our sustainable products alike.

Discover the Remediator difference

Get in touch via email or phone below to arrange a quote.

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