

PFAS Soil Remediation

Product Description

RemBind is a powdered adsorbent that binds strongly to per- and polyfluoroalkyl substances (PFAS) in soil, preventing them from leaching into groundwater where they can cause serious harm to the environment and human health.

RemBind contains a patented blend of ingredients including aluminium hydroxide, carbon and clays. This mixture mimics and enhances the PFAS-binding capacity of natural soils.

Full Scale Projects

RemBind has been used to treat PFAS-impacted soil at full commercial scale in USA, Sweden and Australia with local regulatory approvals. In 2015, 1,000 MT of soil was treated in Australia with RemBind and disposed safely to landfill with full regulatory sign off and no further management requirements.

Proven Long Term Stability

The long term stability of the RemBind reaction has been successfully tested using the US EPA Method 1320 which simulates 1,000 years of stability in an acid rain environment in an improperly lined landfill.

The Treatment Process

RemBind is added to the soil at an addition rate of 1% to 5% and mixed while adding water to achieve a final moisture content of around 20% to 30%. The treated soil is fixed for 24 hours and the remediation process is complete.

Mixing Equipment

For most projects, conventional earth moving equipment such as a loader/excavator and a water truck can be used. For larger projects, specialized soil blending equipment can process up to 500 MT per day per machine.



RemBind being applied to treat PFAS soil in Sweden



RemBind being applied to treat PFAS soil in Australia

Benefits

- Cost-effective compared to soil washing and thermal treatment
- Binds short- and long-chain PFAS substances
- Rapid remediation - 24 hours
- Easy to apply with conventional equipment
- Proven long term stability - US EPA 1320
- Independently validated by industry and government