

How to reclaim PFAS-contaminated soil and water



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FLUORO-SORB adsorbent binds the entire spectrum of PFAS without being affected by co-contaminants in the waste stream



Background

The introduction of per- and polyfluorinated compounds (PFASs) in the mid-twentieth century unleashed a wave of persistent and toxic chemicals into the environment, contaminating everything from food and drinking water to the soil around us. Also known as “forever chemicals,” these substances continue to persist in the environment and in our bodies even after a partial phase-out of their production in the U.S. They are often resistant to even the most advanced water treatment technologies.

Our Solution for Your PFOS/PFAS Remediation Needs

FLUORO-SORB® adsorbent is a proprietary, NSF-certified adsorption media designed to support remediation efforts surrounding PFAS. Vetted by leading research universities,

FLUORO-SORB® is proven to be effective and economical.

FLUORO-SORB® is proven to effectively treat multiple variants of PFAS. It binds the entire spectrum of PFAS in a wide variety of removal and remediation processes. With a specially modified surface, FLUORO-SORB® resists competitive adsorption from other water and sediment contaminants.

TREATMENT APPLICATIONS



Groundwater



Drinking Water



Surface Water



Soil

A High-Performing Treatment Option

Unlike other products that are selective and unpredictable in adsorbing PFAS, FLUORO-SORB binds the entire spectrum of PFAS (including PFOA, PFOS, PFHxS and PFNA) without being affected by co-contaminants in the waste stream, including BTEX, TCE, hydrocarbons (diesel), natural organic matter, salinity, and pH.



Superior, Trusted Technology

- Higher sorption kinetics and better sorption capacity
- More selective toward entire family of PFAS
- Not impacted by co-contaminants in the waste stream
- Use with or in place of other treatment media for improved efficacy
- NSF/ANSI 61 certified
- Manufactured in an ISO 900 facility
- Recent scientific studies of commercially adsorbents showed that FLUORO-SORB® 200 is a highly effective option for PFAS removal. Also, FLUORO-SORB® 200 can tolerate the presence of organic co-contaminants (i.e., BTEX, diesel, 1,4 dioxane) and saltwater.



Adaptable Solutions for Your Project

FLUORO-SORB® can easily fit into your existing remediation efforts. Its versatility in deployment allows it to be used in the following:

- Flow-through filtration technology for drinking and/or groundwater with an Empty Bed Contact Time (EBCT) as low as three minutes.
- Permeable Reactive Barrier (PRB): for passive groundwater and source control.
- In-situ stabilization (ISS): for soil source zone treatment for groundwater and source control.
- Within a CETCO REACTIVE CORE MAT: composite geotextile mat for sediment capping for soil / sediment remediation.
- Pre- or post-treatment: in connection with other treatment media

FOUR VARIATIONS AVAILABLE

FLUORO-SORB® adsorbent is available in a variety of grain sizes and blends to maximize efficiency on each project.

FLUORO-SORB®

100 In-Situ Solidification & Stabilization (ISS)



FLUORO-SORB®

200 Pump & Treat, Permeable Reactive Barrier (PRB)



FLUORO-SORB®

300 High Organics Wastewater Treatment



FLUORO-SORB®

400 Pump & Treat, Permeable Reactive Barrier (PRB)



For more information or to set up your pilot study, contact info@claytek.ca