

# FerroSorp® RW

## Special Adsorbant for Rainwater Run-Off

### General

Rainwater run-off from streets and paved areas can be contaminated to varying degrees, depending upon their usage. Thus, in addition to alkalai and alkaline earth ions, rainwater run-off can also contain nutrients (Phosphate, Nitrate, Amonium), heavy metals (lead, arsenic, cadmium, nickle, zinc), or organic compounds (mineral oil hydrocarbons, phenols, surfactants), as well as Dioxines and Furans.

In conventional rainwater systems, suspended particles normally settle out. However, this does little to remove the remaining harmful substances still dissolved in the rainwater, which risk posing a danger to groundwater and upper-surface waters. Our newly developed **FerroSorp® RW** adsorbent is effient and inexpensive, and was specifically designed to treat rainwater run-off to make the further removal of contaminants possible. **FerroSorp® RW** is ideally suited for use in existing and in newly constructed systems designed for rainwater treatment and rainwater infiltration.

### Procedure

**FerroSorp® RW** is a special granulate formulated with iron-hydroxide and selectively effective adsorbents that was specially developed for the sequestration of nutrients and other pollutants (phosphate, heavy metals, mineral oils, hydrocarbons) in rainwater run-off.

Heavy metals and phosphate become irreversibly bound to the sorbent, **FerroSorp® RW**. With proper, optimal sizing, it is possible for rainwater run-off and infiltration installations to realize long operational times.

***Even under the influence of road salt the bound heavy metals and phosphate remain fully fixed to the adsorbent.***

**FerroSorp® RW** is manufactured in grain sizes 0.15-2 mm (for retention soil filters) and 0.5-2 mm and 2 -4 mm for use in filter vessels, as well as in a variety of custom ordered size ranges. This makes possible for **FerroSorp® RW** to be adapted for use in numerous filter cartridge types.

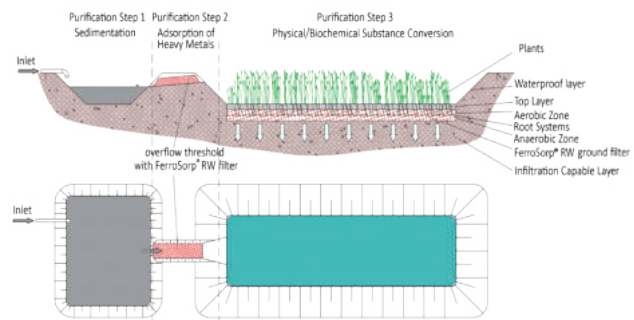
There are numerous DIBt-certified rainwater treatment systems on the market that are ideally suited for the use of **FerroSorp® Plus** and **FerroSorp® RW** filtration adsorbents.

## Various Applications for Rainwater Infiltration

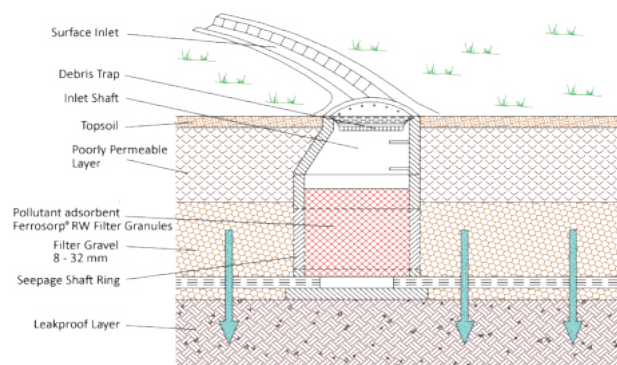
The following graphics illustrate some possibilities for the use of **FerroSorp® RW** special adsorbent for the treatment of rainwater infiltration and run-off.

### Advantages at a glance

- Low cost and effective improvement of the rain-water run-off cleaning process, with long lasting operational times
- Excellent binding capacity for nutrients and organic water contaminants, independent of seasonal changes. Designed for use in filter cartridges and ground retention filters
- Simultaneous binding of phosphate, mineral oil, and heavy metals
- Permanent binding of heavy metals, even under the influence of road salt



Use of FerroSorp® RW in open air rainwater infiltration, with upstream sedimentation



Use of FerroSorp® RW in canister type filter vessel

**We gladly advise  
you individually!**

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