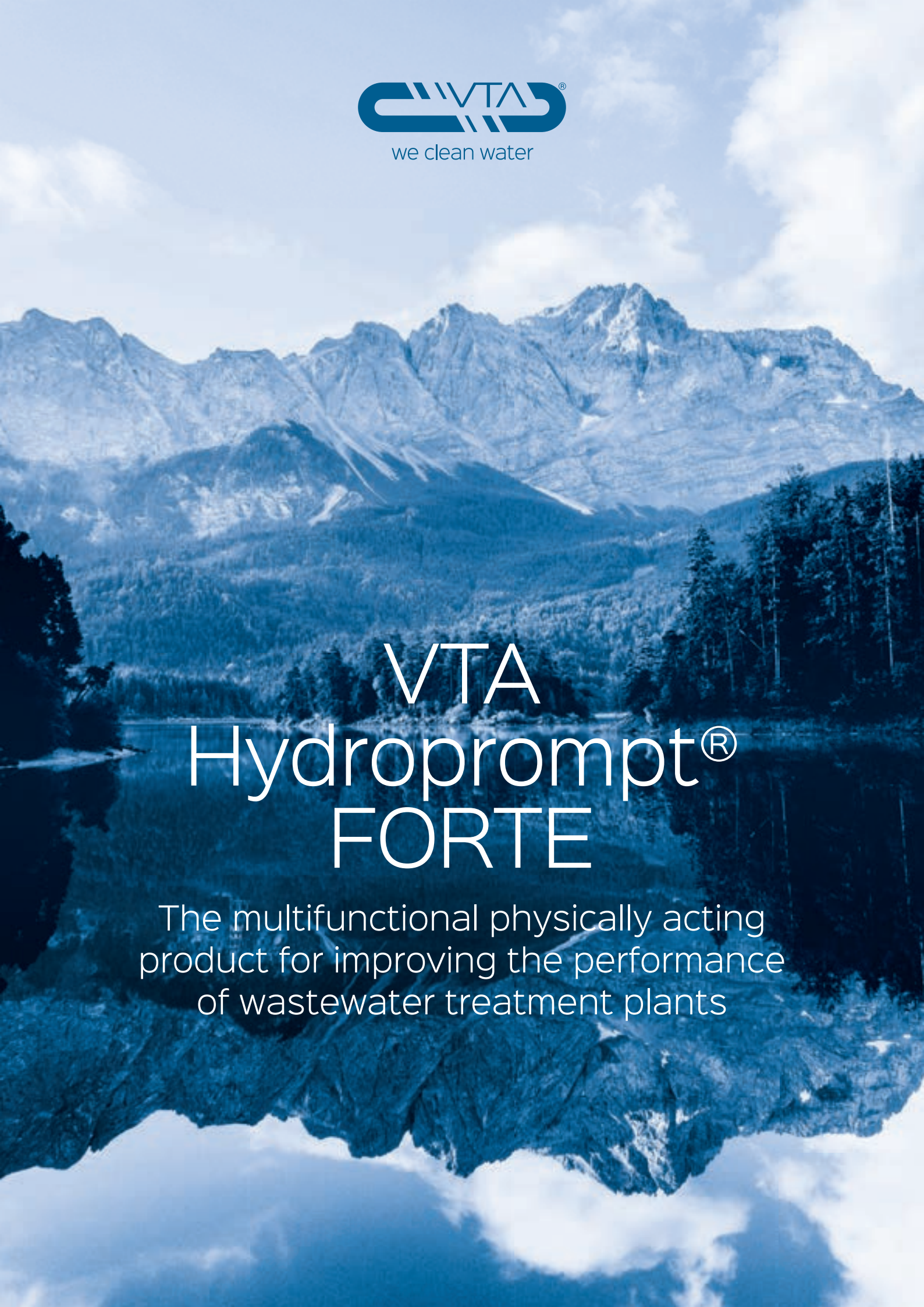


VTA Hydroprompt® FORTE

The multifunctional physically acting product for improving the performance of wastewater treatment plants

VTA Hydroprompt® FORTE

VTA Hydroprompt® FORTE is the result of many years of research and development at our bio-physical laboratories in close cooperation with universities and colleges.

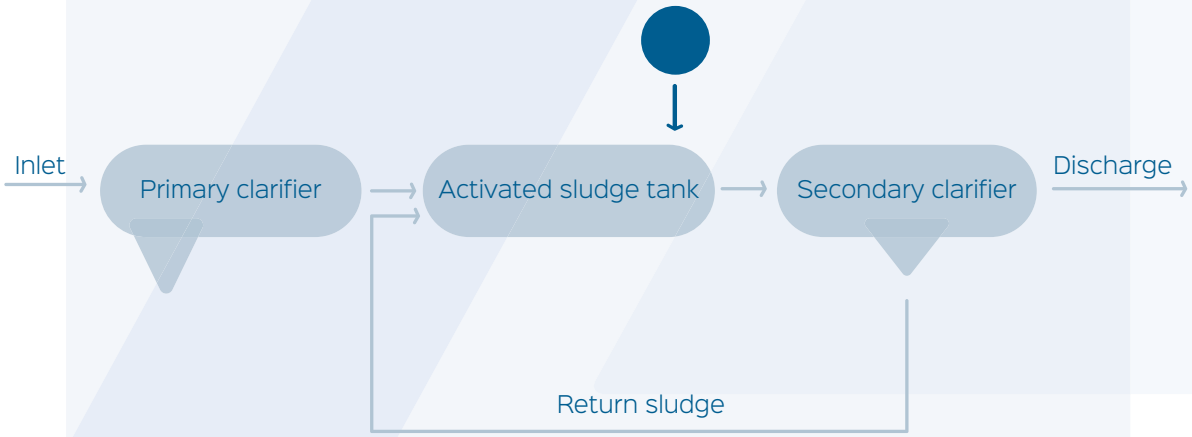
The multifunctional product increases the degradation capacity of wastewater treatment plants and, due to its physical properties, causes the removal of remaining germs in the discharge from the plant.

Increase in degradation capacity

Increase in operational reliability

Effective reduction of the residual germ load

VTA Hydroprompt® FORTE is added to the discharge from the activated sludge tank.



The unique composition enables a wide range of applications and can be used individually according to requirements.

ADVANTAGES

- Increase in degradation capacity for carbon, nitrogen and phosphorus compounds
- Increased operational reliability by improving the sedimentation properties of the activated sludge
- Effective reduction of the residual germ load in the discharge from the treatment plant at extremely low dosages
- Efficient flocculation: formation of stable macrofloc
- Potential savings in precipitant consumption
- Minimisation of the germ load in aerosols from the activated sludge tank

Without
VTA Hydroprompt® FORTE

With
VTA Hydroprompt® FORTE

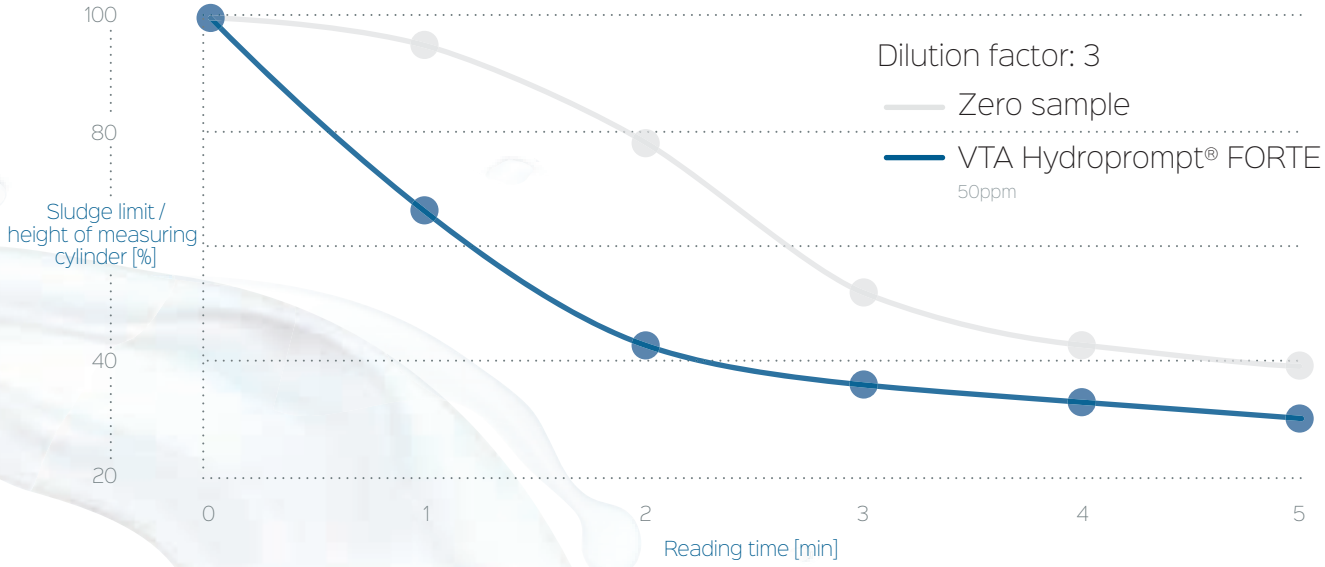
With the use of VTA Hydroprompt® FORTE, a significant reduction in the residual germ load in the discharge from the wastewater treatment plant can be observed.

The multifunctional mechanism of action of VTA Hydroprompt® FORTE produces an increase in performance, improving the operational reliability of wastewater treatment plants.

Operational reliability in wastewater treatment plants has a name

VTA Hydroprompt® FORTE

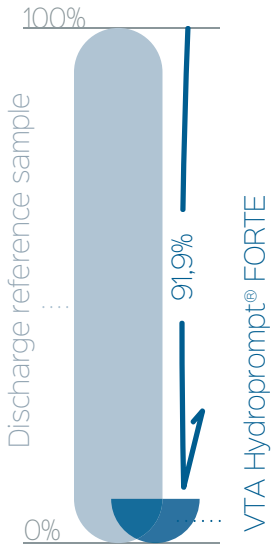
SEDIMENTATION CURVE
ACTIVATED SLUDGE



REDUCTION OF PARTICLES

Minimisation of fine suspended solids in the clear water phase

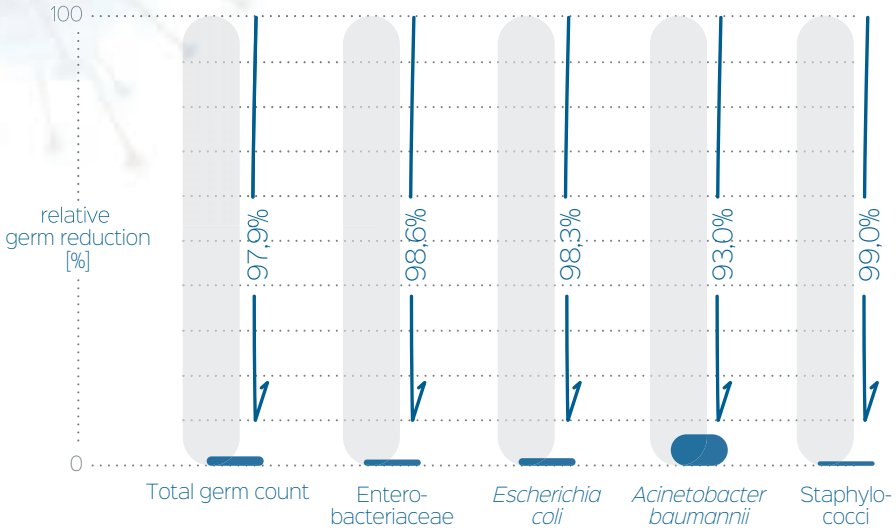
< 5µm in the discharge



Analysis of data from a series of practical applications

REDUCTION OF THE RESIDUAL GERM LOAD

The addition of VTA Hydroprompt® FORTE to the discharge from the activated sludge tank causes a significant reduction in the residual germ load in the discharge from the treatment plant as compared to the initial situation.



MICROBIOLOGICAL ANALYSIS

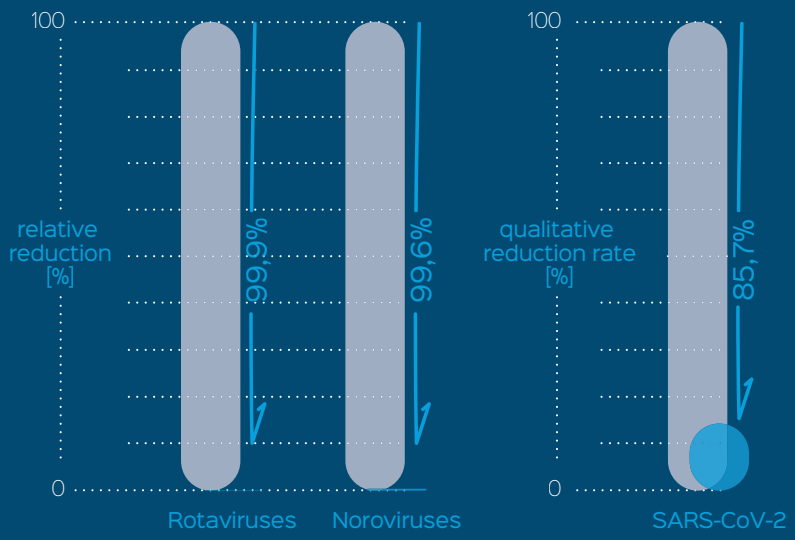
Dosage of ≤ 50ppm VTA Hydroprompt® FORTE in the discharge from the activated sludge tank

On request, the VTA Institute for Health & Environment can provide you with help and support with the practical use of VTA Hydroprompt® FORTE.

-60%

Another positive feature of VTA Hydroprompt® FORTE is the reduction by around 60% of the germ load in aerosols from the activated sludge tank.

Additional molecular biological analysis also shows a reduction of up to 99% in the residual virus load of noroviruses, rotaviruses and SARS-CoV-2 viruses through the use of VTA Hydroprompt® FORTE. The results of external analyses confirm the in-house results.[1]



MOLECULAR BIOLOGICAL ANALYSIS

Dosage of ≤ 50ppm VTA Hydroprompt® FORTE in the discharge from the activated sludge tank

[1]The analysis reports from external laboratories are available at the VTA Institute for Health and Environment.

The possible scope of microbiological and molecular biological support by the VTA Institute for Health and Environment includes:

- Sampling by trained personnel
- Microbiological and molecular biological analysis
- Evaluation and assessment of results
- Report / summary of results in electronic and printed format

VTA INSTITUTE FOR
HEALTH & ENVIRONMENT

In addition to scientific research and product development, the VTA Institute for Health and Environment is dedicated in particular to wastewater analysis and its further development, with a focus on demonstrating the improvement in performance and reduction of the germ load at wastewater treatment plants.

At our laboratories, which work to the highest standards, the VTA Institute for Health & Environment offers the following methods:

VTA INSTITUTE FOR HEALTH & ENVIRONMENT

AEROSOL MEASUREMENT

Determination of aerosol quantity using the TSI8530 DustTrak II desktop aerosol monitor and aerosol sampling using the MicroFlow ALFA air sampler.

MICROBIOLOGICAL METHODS

⟶ Microbiological germ analysis using universal and selective agar culture media.

⟶ Microbiological germ analysis using selective liquid culture media with quantitative colony count using the Quanti-Tray™ method

⟶ Quantitative particle determination (< 5µm) using the CASY cell counting system

MOLECULAR BIOLOGICAL METHODS

Molecular biological detection of viral RNA / DNA and antibiotic resistance genes of bacterial origin in water samples using the TFX96 Touch real-time PCR system.

DETERMINATION OF DRUG RESIDUES

Qualitative / semi-quantitative analyses of water samples for specific drug classes using Supelco Visiprep™ solid phase extraction through SupelMIP™ columns and IMPLEN NP80 Mobile NanoPhotometer® measurements.

We clean water.

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