

Application of Sanosil Super 25 in plant cultivation

SANOSIL AG

CH-8634 HOMBRECHTIKON, SWITZERLAND

WWW.SANOSIL.COM

SERVICE@SANOSIL.COM





Modern plant cultivation methods and sophisticated irrigation systems promise high yields.

They are, however, relatively susceptible to plant pests, such as bacteria and various fungi, which may rapidly spread as biofilms in irrigation systems and/or greenhouses.

As a result, special attention must be paid to hygiene, because just like in all other areas, prevention is always better than cure.



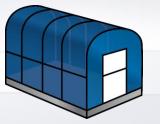


Possible microbiological problem sources











Root rot caused by bacteria and fungi in the water and/or a contaminated substrate.

Spread of plant diseases caused by airborne germs (especially mould).

Blockages and clogging of the irrigation system caused by biofilms, bryozoans and or algae.

SANOSIL AG

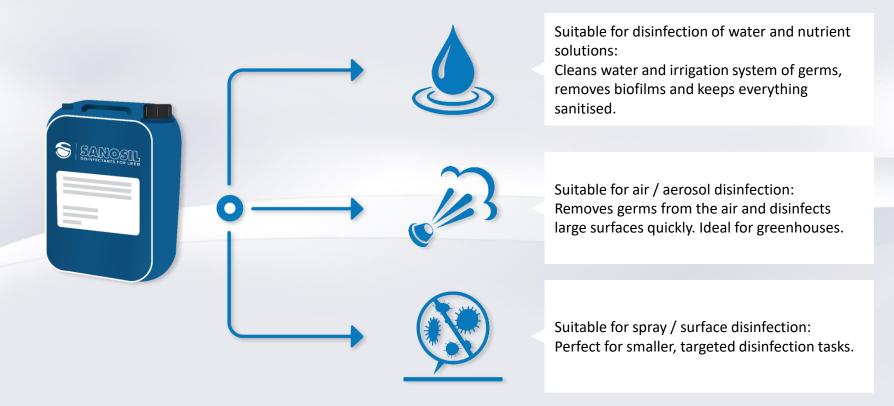
• CH-8634 HOMBRECHTIKON, SWITZERLAND





SANOSIL AG

Why is Sanosil Super 25 the solution?



CH-8634 HOMBRECHTIKON, SWITZERLAND





Biofilms and chlorine



In case of extensive biofilm growth, disinfection with chlorine is practically <u>useless</u>, since the biofilms are not effectively removed.

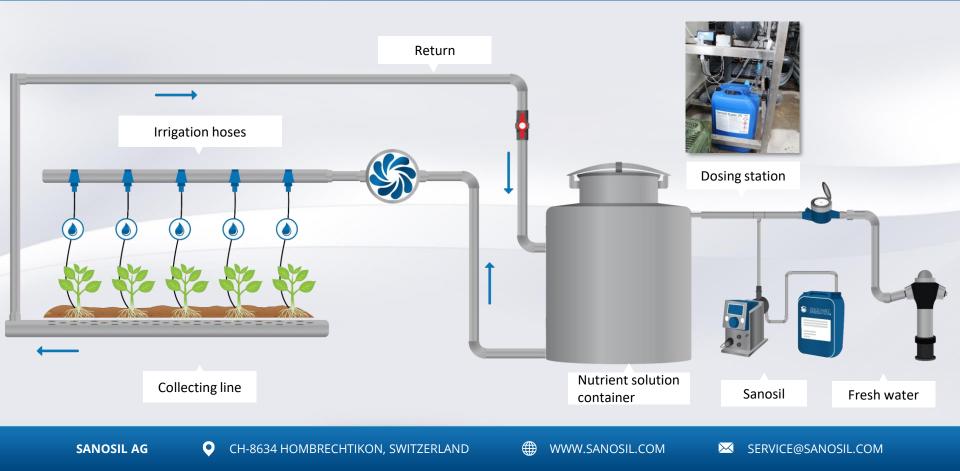
In addition, the bacteria are often in a "VBNC" state. (Viable But Not Culturable). This skews performance controls and offers a false sense of security.

In contrast, Sanosil can effectively eliminate both <u>biofilms</u> and <u>VBNC germs</u>.



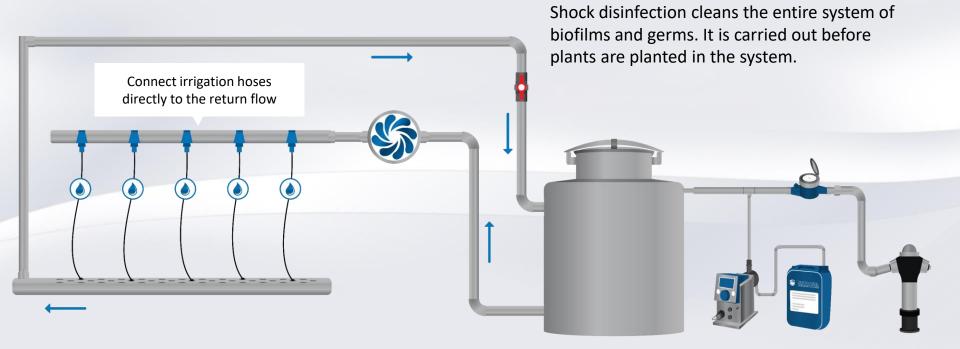


Diagram: Top feeder irrigation system with return flow





Shock disinfection: Preparation







Shock disinfection: A - with dosing pump

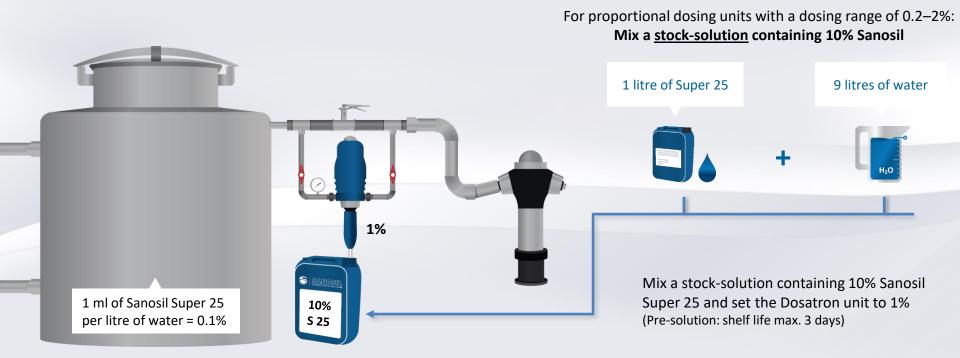


SANOSIL AG CH-8634 HOMBRECHTIKON, SWITZERLAND





Shock disinfection : B – with Dosatron

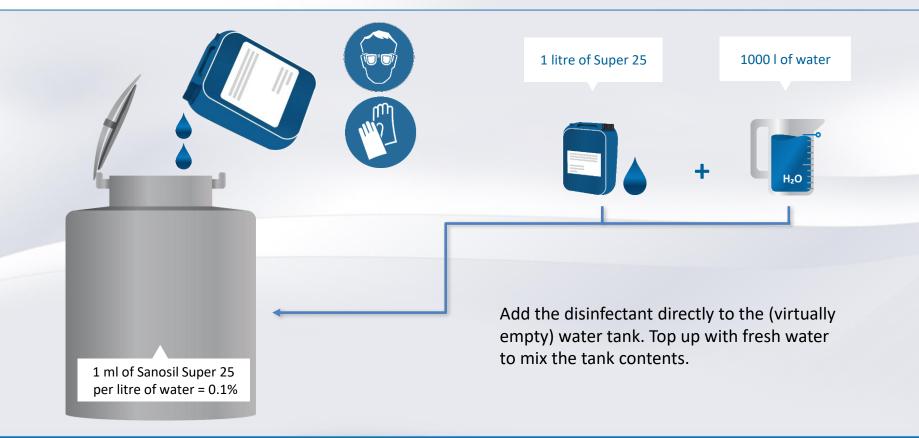


CH-8634 HOMBRECHTIKON, SWITZERLAND





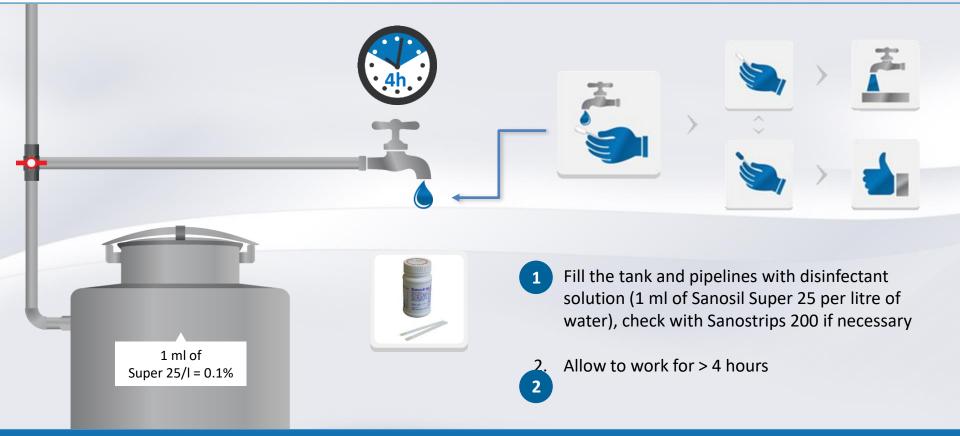
Shock disinfection: C – direct method







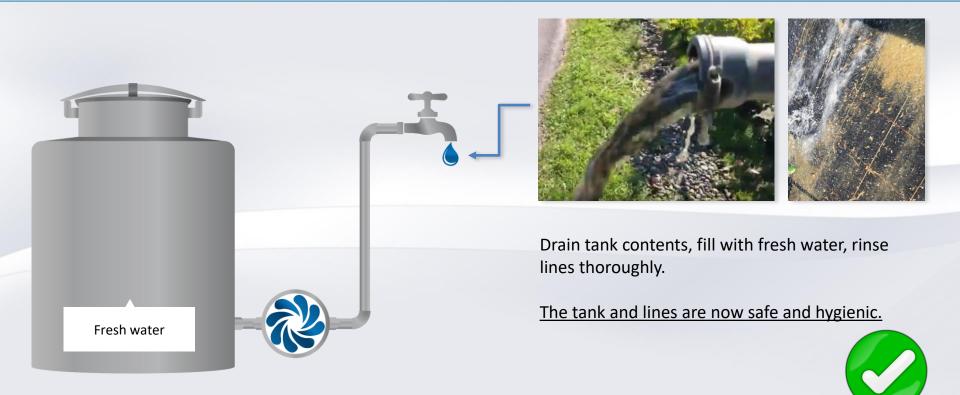
Shock disinfection: Fill the pipelines







Shock disinfection: Flush the pipelines

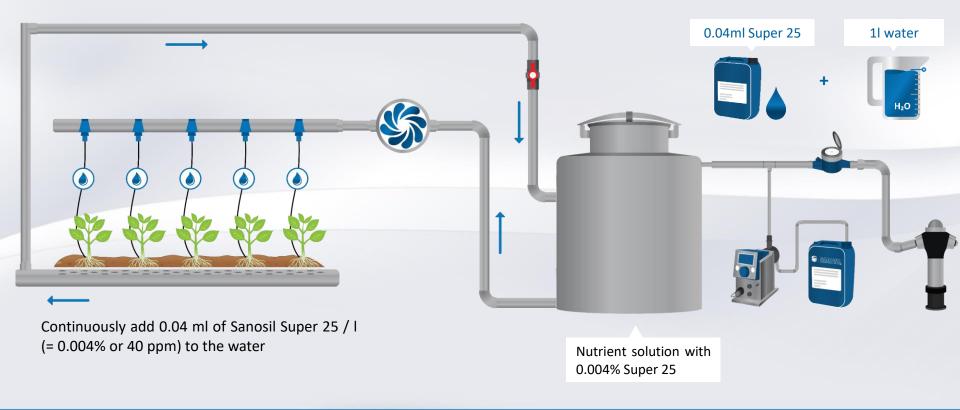






SANOSIL AG

Continuous treatment: A – with dosing pump



CH-8634 HOMBRECHTIKON, SWITZERLAND

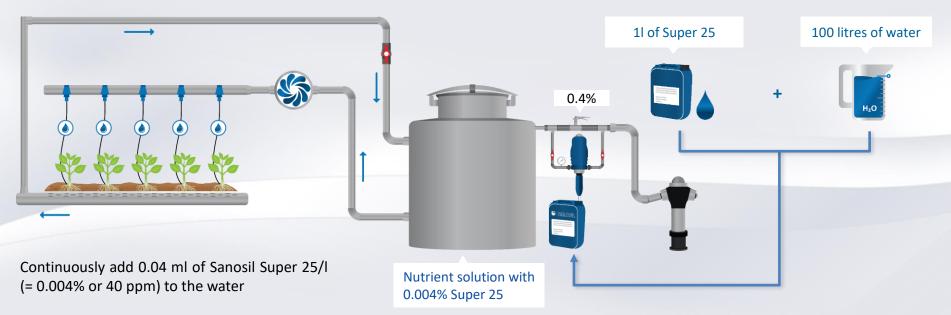
WWW.SANOSIL.COM

SERVICE@SANOSIL.COM



Continuous treatment: B – with Dosatron

Stock solution 1% x 0.4 = 0.004%



For proportional dosing units with a dosing range of 0.2–2%: Mix a 1% pre-solution of Super 25 and set the unit to 0.4%. (Use the stock solution within 3 days)



Aerosol disinfection with hot fogging machine



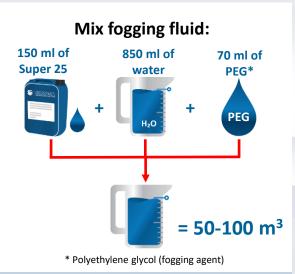
Wash walls, floors and if necessary, ceiling with a high-pressure cleaner

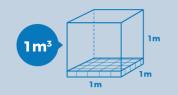


Allow to dry (the more thorough the cleaning, the more effective the disinfection)



Close doors, windows and hatches. Mix fogging fluid, fill into a suitable hot fogging machine (e.g. Swingfog), spray rooms. Allow to take effect for at least 3 hours. Caution: wear protective mask for eyes and respiratory tract.





SERVICE@SANOSIL.COM

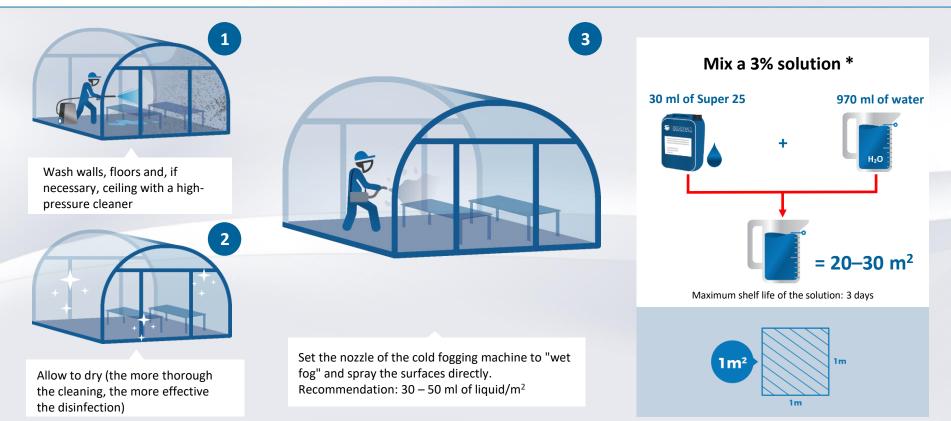
 \sim

SANOSIL AG

CH-8634 HOMBRECHTIKON, SWITZERLAND



Spray disinfection with cold fogging machine

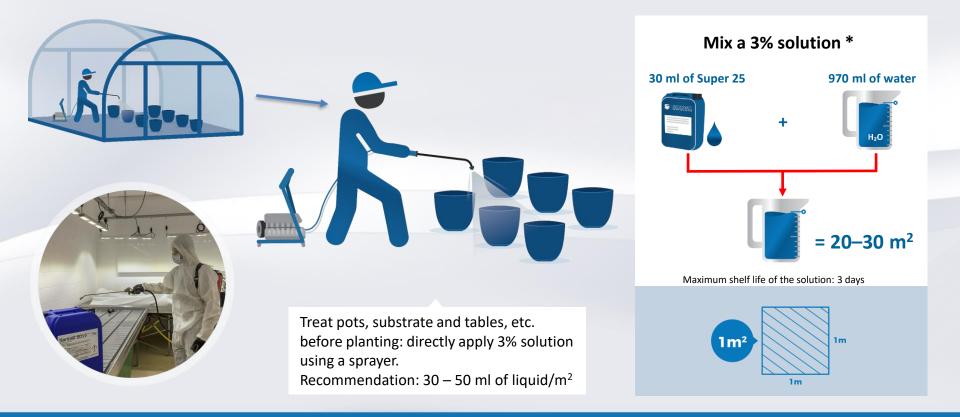


SANOSIL AG





Spray disinfection plant equipment



SANOSIL AG OCH-8634 HOMBRECHTIKON, SWITZERLAND





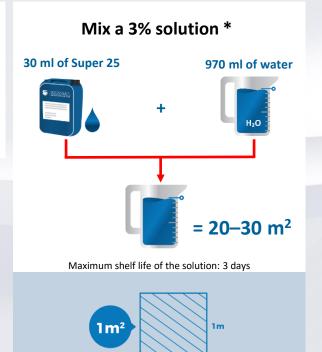
Treating plant diseases such as mildew



Unofficial application recommendation:

To combat **mildew** and other plant diseases: spray plant with max. 3% Sanosil Super 25. For 3 days, 1x/d each

Recommendation: 30 – 50 ml of liquid/m²



SANOSIL AG

CH-8634 HOMBRECHTIKON, SWITZERLAND

WWW.SANOSIL.COM

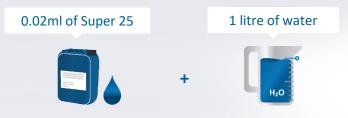


1m



Prevention of biofilm formation in the pipes:





SANOSIL AG

CH-8634 HOMBRECHTIKON, SWITZERLAND

