

Silosept[®]

1. Introduction

Impressions are contaminated microbially with saliva and blood when removed from the patient's mouth. Although simply washing the impression makes it look clean, it will not really have been disinfected. Highly infectious germs may be transferred to the laboratory and there is a risk of infection for the dental technician.

As the technician does not work in sterile conditions, germs may also be transferred to the restoration. One should also consider that the technician carries out various procedures for different patients during the day, which may lead to cross-contamination. If the impression is not disinfected, these germs will be transferred to the dental practice and into the patient's mouth. This chain can be extended further and further. Infectious material may even be transferred from the practice into the laboratory and vice versa.

This risk of infection for patients, dentists and technicians was discussed in great detail after AIDS became known.

The disinfection of all impressions and restorations which leave a dental practice or laboratory appears absolutely essential to protect the group of people mentioned above.

2. What is expected of an impression disinfectant

To clarify what is expected of an impression disinfectant, these are the recommendations issued by the German Study-Group for Hygiene in Dental Practices (DAHZ):

- Compliance with the DGHM (German Society for Hygiene and Microbiology) requirements regarding instrument disinfectants and proven effectiveness against bacteria and fungi including tuberculosis
- Effective disinfection when exposed to small amounts of blood and phlegm (minimal protein effect)
- Virus inactivation, at least against hepatitis B, HIV and adenoviruses

- No changes in the properties of the impression material (dimensional stability)
- No changes in the setting properties and hardness of the plaster (plaster compatibility)
- Short reaction time (up to 10 minutes)
- Minimal toxicity and allergization
- Discreet odor
- Functions for an acceptable period (at least 12 hours)
- Cost-effective
- Ecologically harmless

3. The properties of Silosept®

As the impression disinfectants commonly used nowadays are solutions or granules supplied in atomizer bottles, disinfection is carried out by spraying or immersing. Silosept® is a granulated material based on active oxygen for immersion disinfection. Its range of indications covers all germs required by the German Society for Hygiene and Microbiology and the active oxygen cleans the impression.

This product is supplied in a can and the powder removed from it with a simple measuring scoop. This reduces the amount of refuse in comparison to single portion sachets. To mix a 2% solution, ***one*** scoopful should be dissolved in ***one*** liter of water. Dentists will usually mix ***2 liters*** of disinfectant to ensure that the impressions or restorations can be fully immersed in it. Allow for a reaction time of 10 minutes. The user can dispense this product easily and reliably. Fresh disinfectant must be mixed every day. As Silosept® is fully biodegradable, it is ecologically harmless. Silosept® powder is easily transported and stored.

The Silosept® system includes a timer. Every can also includes 54 free labels marked "Disinfected with Silosept®".

4. Important hints for using Silosept®

Model pouring

For creating the model the impression should be poured with e.g. Tewestone or Tewaterock after at least 60 minutes after disinfection.

Advantages / Benefits

Immersion disinfection

Wets the entire surface

Adequate range of indications

Kills all relevant germs inclusive HCV

Concentrate in a can, includes a measuring scoop

- * Reliable dispensing
- * Easily transported and stored
- * Causes less refuse than single packs and solutions

Fully biodegradable

Ecological

Disinfected items are labeled

Prevents repeated disinfection

The system includes a tank and timer

Silosept® is easy and reliable to handle