

GapSeal®

Protects hollow spaces against bacteria, viruses and fungi

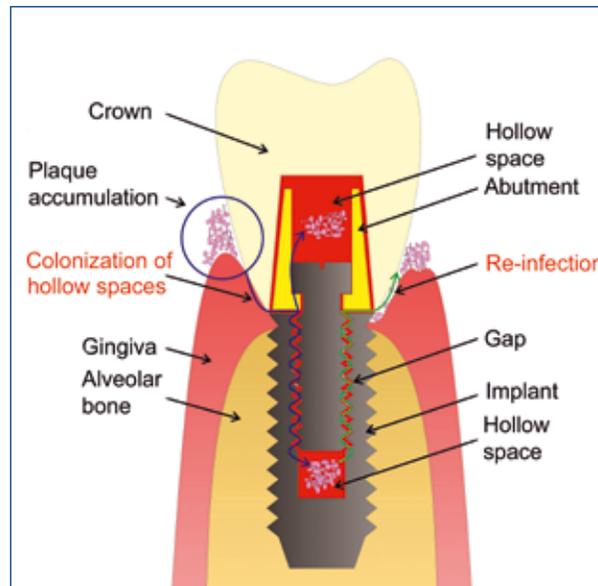
- + Lasting, hermetic protection, no formation of micro-gaps
- + Prevents micro leakage
- + Ideal for assembled implants



Clinically proven!



Description	REF
GapSeal Set (applicator with 10 Tips)	152 041
GapSeal Refill Pack (10 Tips à 0.06 ml)	152 040
Applicator separately	152 042



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Gap-sealing against peri-implantitis

Out of manufacturing constraints, gaps and hollow spaces between implant and superstructure are inevitable in all compound implants.

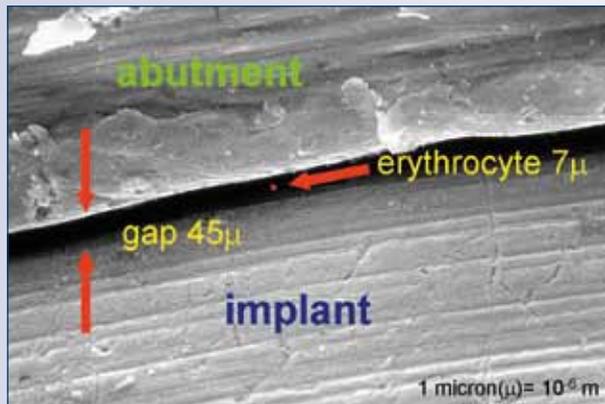
Fig. 1

These gaps can be minimized depending on fabrication precision. However, they are never completely bacteria-proof and in an open connection with the bacteria-, fungi-, and virus-settled oral cavity. The spectrum of germs settling in the hollow spaces consists of a large quantity of gram-negative, mostly anaerobic bacteria, as it is the case with peri-implantitis. These humid and warm implant interiors offer an ideal environment for the growth of bacteria and partly also cause fungal colonization. Already 20 years ago, the Clinic for Oral and Maxillofacial Surgery of the Heinrich-Heine



University, Düsseldorf, Germany under the direction of Prof. Dr. Dr. Fritzemeier, started finding a solution to this problem. The gap between abutment and implant averages „only“ 45 microns (Fig 2.), whereas most of the relevant germs have a size of 0.5 microns to 4 microns.

Fig. 2



Based on extensive studies and tests, a material was developed sealing all capillary gaps and interior spaces of the compound implant bacteria-proof.

GapSeal is based on a special silicone matrix ingredient composition, which creates a barrier effectively preventing infiltration and colonization by bacteria. It is used immediately after inserting the implant with the first fixing of the locking screw. Therefore, the implant is durably protected against colonization by bacteria, viruses and fungi from the very beginning. GapSeal is most easy in application as the material is offered in small portion carpules (sufficient for 2 – 3 implants), together with a special applicator (Fig. 3).

Fig. 3

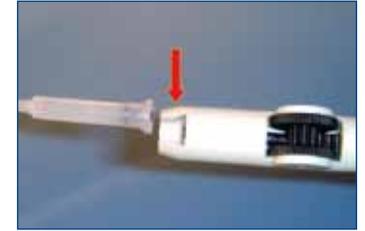


GapSeal seals the gaps and hollow spaces, which are to be found in every compound implant, thus effectively and durably avoiding colonization of germs into these hollow spaces and eliminating the risk of re-infection/microleakage of the peri-implantal tissue, one of the main reasons for peri-implantitis.

Source: Prof. Dr. Dr. Claus Udo Fritzemeier

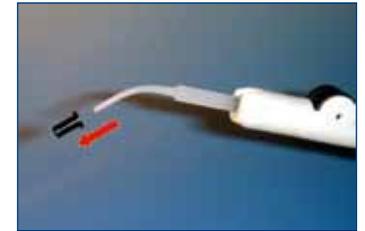
Step 1:

The GapSeal tip is being inserted into the applicator.

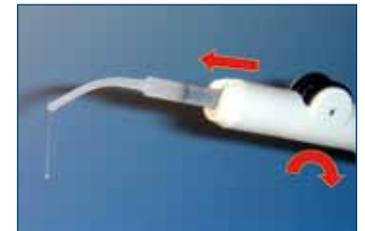


Step 2:

After removal of the closure cap ...

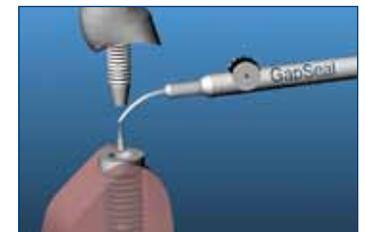


... GapSeal can directly be applied by simply turning the transport screw.



Step 3:

Immediately after the application, the implants are generously loaded with GapSeal.



The implant gets sealed airtight with GapSeal, leaving no hollow spaces, by inserting the locking screw.

