

## Kiero Seal – Information about the product

### Description:

Because of the construction of assembled implants with its impossibility of an exact manufacturing of the platforms, there is a micro-gap between implant and abutment which changes according to the system, among 4 – 120 µm. As the bacteria size ranges between 0,5 – 2 µm this small gap is permeable in both directions.

The chewing makes the teeth to be under not only dynamic strength also can be lateral or horizontal point of attack. This strength is sent towards to the implant causing a small bending in the abutment-implant joint. This causes constantly a "pumping effect of bacteria. Enough reason to seal the small gap looking to avoid the contact among the hollow spaces in the interior and exterior part of the implant.

### Indications:

Sealing gel for implantology with the following advantages:

- Prevents infection in the implant abutment area
- Prevents bacteria proliferation into the implant cavities
- Prevents fetid odour
- Insure the screw against loosening
- Prevents the periimplantitis and the bony degeneration as it may cause the implant loose.

### Composition:

Polydimethyl polymethylvinyl-siloxane, polydimethylpolymethylhydrogen siloxane, silica and paraffine

### Syringe preparation:

Take off the syringe top turning around and pull it (do not use it again). Replace it by one mixer cannula and one application tip. Turn around the cannula 90° till the top is closed. Now, the material is ready for the application. Throw away the first 2-3 mm of material to ensure that both components have been mixed properly. This procedure must be done with every new mixer tip. Keep the used syringe with the mixer placed on it.

### Application:

The gel must be applied direct over the implant platform or over the implant abutment. Next the abutment must be placed under a soft pressure, tight the screw with the par suggested by the manufacturer. Next, it must be checked again if the screw and the attachment are properly tight and the leftover material is not located in the thread. The remaining material can be removed easily. The remaining material can be removed with a tissue. The handling time is 2 minutes and it gets completely harden in 5 minutes. Once the thin layer has been hardened it lets remove itself all in one piece and there is not any material left.

### Observation:

It is important to change the gel in every check-up as it undergoes to dynamic strength which sends it to process fatigue.

### Specifications:

Consistency:	gel of low viscosity
Colour:	transparent
Odour:	odourless
Hardness:	21-28
Expiration:	2 years

### Side effects and contraindications:

Unknown. The hardened gel is chemistry and biologically inert. It is compatible and there is not known any allergy reaction.

### Storage:

Do not use the material after the expiration date.

Do not fridge it. Protect it against the direct light. Keep it in **dry** between 4° and 25° C.

### Relative considerations to the elimination:

According to the 91/689/CEE directive, Kiero Seal is not classified as dangerous residue and it can be eliminated like a solid normal rubbish once polymerized.

### Presentation:

- 1 syringe with double effect with 5 ml
- 5 mixing tips
- 5 application tips