



Expert information

## HERMETIC

CE 0124

### Manufacturer

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### Name

HERMETIC solution  
HERMETIC powder

For the preparation of a root-canal filling material on the basis of zinc oxide and eugenol. For dental use only

### Composition

Solution: Eugenol and Peru balsam

Powder: Zinc oxide, zinc stearate, zinc acetate dihydrate, and zirconium(IV)-oxide.

### Indications

HERMETIC is used to fill the root canal following mortal or vital extirpation, following the treatment of gangrene, as root-canal filler prior to root apex resection, and as chamber filling following pulpectomy.

### Contra-indications

Allergies to components of the root-canal filler.

### Side-effects

When the root canal is overfilled, periapical tissue reactions may result which, however, ease quickly.

### Notice

Humidity in the root canal accelerates the setting of the zinc oxide-eugenol cement. A direct contact with composites is to be avoided since eugenol softens synthetic materials.

### Mode of application

Mix some drops of HERMETIC solution with so much HERMETIC powder (mixing ratio 1 part of solution to 4 parts of powder) that a mass with a creamy, firm consistency results.

After the drying of the root canal the mixed cement is pumped up by means of the filling spiral or the Miller needle and adapted to the canal wall. Fill up to the apex, but do not overfill as undesirable tissue reactions and pain might result.

When a root pin is used, implant the pin carefully so that no root-canal filler will be pressed over the apex. For the filling of roots prior to an apicectomy and for chamber fillings after pulpectomies, HERMETIC is to be mixed to a slightly thicker consistency. By this, the cement hardens more quickly.

### Emergency measures, symptoms, and antidotes

If after the application of HERMETIC pain should arise, either the root canal was not exactly prepared or overfilled. In the case of a not exact root-canal preparation, the cement must be removed again and the preparation must be repeated. In the case of an overfilling of the root canal a short-wave or microwave therapy resp. thermoradiotherapy has proved to be successful. The pain will ease quickly.

## Further notices

The main target of a root-canal filling is to produce a permanent sealing which prevents the penetration of microorganisms and other toxic noxae.

The prerequisite is the exact preparation of the root canal as far as the apex, the quantitative removal of gangrenous pulp masses, and the perfect disinfection of the root canal.

Zinc oxide and eugenol form the matrix of the cement.

Zinc acetate and zinc stearate serve as accelerators. Peru balsam serves as binding agent and softener so that the filling cement will not become crumbly. Zirconium(IV)-oxide imparts a good radiographic contrast to HERMETIC.

HERMETIC is a root filling material which expands during setting and thus is parietal and absolutely tight. During setting HERMETIC absorbs humidity. After hardening HERMETIC is impermeable for humidity and not porous. HERMETIC shows no discoloration of the crown. An overfilling into the apical tissue, which cannot always be avoided, may lead to tissue reactions and pain.

By the quick onset of the repair processes under a neogenesis of connective tissue which envelops the overfilled material, the pain will ease rather quickly. The overfilled cement is being absorbed slowly.

Serious locally toxic reactions in the periapical tissue and an absorption of the root filling material within the root canal have not been observed as yet after the use of HERMETIC.

## Shelf life

HERMETIC solution and HERMETIC powder shall not be used after the expiry date.

## Storage and preservation

Always store HERMETIC powder in airtight containers.

## Administrative form and package size

8 ml solution

14 g powder

## Date of revision

January 2010

Symbol of "Expiry date"



Symbol of "Batch number"



Symbol of "Pay attention to the directions for use"



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