



Expert information

HERMETIC

CE 0124

Manufacturer

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Name

HERMETIC solution
HERMETIC powder
For dental use only

Intended use

For the preparation of a root canal filling material or a root canal sealer based on zinc oxide-eugenol.

Composition

Solution: Eugenol and Peru balsam

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

Indications

After mixing its two components (HERMETIC powder, HERMETIC solution) HERMETIC is used for filling the root canal (for example, after mortal and vital extirpation or after the treatment of gangrene), as root filling (e.g., prior to apicectomy), as chamber filling (e.g., after pulpectomy) and as root canal sealer (e.g., when using gutta-percha pins).

Contra-indications

Allergies to components of the root canal filling material.

Side-effects

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

Notice

HERMETIC powder and HERMETIC solution should be used together only and may not be mixed with other materials.

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 polymer materials.

Due to the higher solubility of zinc oxide-eugenol cements, dental associations recommend the application as a root canal sealer in combination with gutta-percha pins.

Mode of application

Mix some drops of HERMETIC solution with HERMETIC powder (mixing ratio about 1 volume part of HERMETIC solution to about 4 volume parts of HERMETIC powder) until a homogeneous cement mass is obtained in a creamy, short-breaking consistency.

After preparation and drying of the root canal, the freshly mixed cement is introduced into the root canal (for example, with a filling spiral or Millernadel) and adapted to the canal wall. Fill up to the apex but do not overfill, as undesirable tissue reactions and pain may occur.

When using a root pin or gutta-percha pins, insert the pin carefully so that no root canal filling material is pressed over the apex. For root filling before apicectomy and for filling the chamber after pulpectomy, HERMETIC can be applied by using a slightly higher proportion of powder also in a somewhat thicker consistency. This hardens the cement faster.

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 dihydrate 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 canal 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 canal 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

HERMETIC powder: Always close the container immediately after removing the powder.

HERMETIC solution: No special instructions.

Administrative form and package sizes

8 ml solution Item number 0032308

14 g powder Item number 0032309

Date of revision

2016-10

Symbol of "Expiry date"



Symbol of "Batch number"



Symbol of "Pay attention to the directions for use"



Symbol of "Manufacturer"



Symbol of "Catalogue number"

Shows Item number of the manufacturer

