



Expert information

Cp-CAP

Manufacturer

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CE 0124

Name

Cp-CAP solution
Cp-CAP powder
For dental use only

Intendend use

For the preparation of a calcium hydroxide-containing pulp capping material based on zinc oxide-eugenol.

Composition

Solution: Eugenol, colophony, peru balsam

Powder: Calcium hydroxide, zinc oxide, zinc acetate dihydrate, zirconium(IV)-oxide, and colophony

Indications

After mixing of its two components (Cp-CAP powder, Cp-CAP solution), Cp-CAP serves as a pulp protection for the direct and indirect capping of the pulp. Cp-CAP is also suitable for attaching temporaries.

Contra-indications

If during the vitality test a clear pain on heat occurs (perhaps throbbing with the pulsation) a preservation of the vital tooth is no longer possible (pulpectomy, treatment of gangrene).

Allergy to components of the cement, especially to eugenol and peru balsam.

Notice

Cp-CAP powder and Cp-CAP solution should be used together only and may not be mixed with other materials.

A direct contact with composites is to be avoided since eugenol softens synthetic materials.

Cp-CAP powder contains calcium hydroxide. Avoid any contact with the eyes and the skin. In the case of unintentional contact with the eyes, remove the particles mechanically, if possible, and then rinse immediately with plenty of water.

Mode of application

Mix one drop of Cp-CAP solution with as much Cp-CAP powder as possible, as thick as possible (mixing ratio about 1 volume part of solution about to 6 volume parts of powder), to give a firm consistency. For this purpose, gradually mix the already provided powder into the solution by using pressure onto a spatula while spread out the mass over a large area until the mass does not shine any more. As soon as the mass is exposed to water or saliva, curing begins.

After preparation apply this mixture with the ball plugger into the cleaned and dry cavity.

For pulp capping, first cover the marginal area of the cavity bottom and finally the central area which is nearest to the pulp. Fill mesial and distal cavities from top to bottom. Fill the cavity as completely as possible, then remove as much of the hardened Cp-CAP as is necessary for the final filling.

Before the application of composites cover the Cp-CAP with a protective layer of phosphate cement (eugenol!).

To avoid pulpal pain following the preparation of vital stumps, temporary measures can be attached with Cp-CAP.

Further notices

Cp-CAP combines the properties of calcium hydroxide with those of zinc oxide-eugenol cement. Eugenol forms eugenolate complexes, which are the hardening cement matrix, prior to the application with the zinc ions and calcium ions contained or released in the powder component. Peru balsam serves as a softener of the first paste-like cement and thus facilitates its uniform application in the tooth cavity. Colophony increases the physical stability of the cement and the adhesion to the cavity wall of the tooth because of its adhesive properties. Complex formation and thus cement formation is accelerated by the spontaneously soluble zinc acetate dihydrate, which serves as an accelerator. Zirconium(IV)-oxide is a radiopaque filler.

Calcium hydroxide acts strongly alkaline (ca pH 12) and produces a superficial coagulation necrosis on the vital tissue. As a defensive reaction this coagulation necrosis induces the formation of a mineralised barrier towards the pulp, and after about 3 months a closed repair dentine layer (bridging tertiary dentine) can develop.

Cp-CAP sets in 100 - 360 seconds from start of mixing. Raised air humidity or high temperatures lead to a reduction, intensive mixing to an extension of the setting time.

Do not return powder remainders into the container.

Shelf life

Cp-CAP solution and Cp-CAP powder shall not be used after the expiry date.

Storage and preservation

Cp-CAP Powder: Always close the container immediately after removing the powder

Cp-CAP Solution: No special instructions

Administrative form and package sizes

5 ml solution Item number 0032303

15 g powder Item number 0032304

Date of revision

2017-04

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



0026303/Stückzahl0417/Bestelldatum